The Mission of the University of Charleston is to educate each student for a life of productive work, enlightened living, and community involvement.

Accredited by the Higher Learning Commission
https://www.hlcommission.org/
1-800-621-7440
Regional Accreditation: Higher Learning Commission (HLC)

Specialized Accreditations
Accreditation Council for Occupational Therapy Education (ACOTE)
Accreditation Council for Pharmacy Education (ACPE)
Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA) Continuing (Charleston)
American Health Systems Pharmacists (ASHP)
Certified Financial Planner Board of Standards, Inc. (Registered Program)
Commission on the Accreditation of Athletic Training Education (CAATE)
Council for the Accreditation of Educator Preparation (CAEP)
Council for Interior Design Accreditation (CIDA)
Joint Review Committee on Education in Radiologic Technology (JCERT) (AS and BS)
Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)
Accreditation Commission for Education in Nursing (ACEN)
West Virginia State Board for Registered Professional Nurses (ADN and BSN)

Memberships
Accreditation Council of Business Schools and Programs (ACBSP) [Candidate for Accreditation]
The American Council on Education (ACE)
American Association of Colleges for Teacher Education (AACTE)
American Association of Colleges of Nursing (AACN)
The American Association of Colleges of Pharmacy (AACP)
American Library Association
Appalachian College Association (ACA)
Association of American Colleges & Universities (AAC&U)
Association of Governing Boards (AGB)
Association on Higher Education and Disability (AHEAD)
College Entrance Examination Board
Council for Higher Education Accreditation (CHEA)
Council of Independent Colleges (CIC)
Community-Campus Partnerships for Health (CCPH)
Interior Design Educator’s Council (IDEC)
LOEX (Clearinghouse for Library Instruction)
Medical Library Association (MLA)

The University of Charleston operates at the following locations and on an ad hoc basis at other locations throughout West Virginia; online courses may be pursued through any of our three locations.

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Telephone</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300 MacCorkle Avenue, S.E.</td>
<td>127-B Dye Drive</td>
<td>(304) 357-4800</td>
<td>(304) 357-4715</td>
</tr>
<tr>
<td>Charleston, WV 25304-1099</td>
<td>Beckley, WV 25801</td>
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<tr>
<td>1 Sugar Maple Lane</td>
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<tr>
<td>Beckley, WV 25801</td>
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<tr>
<td>1 Sugar Maple Lane</td>
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<tr>
<td>Charleston, WV 25304-1099</td>
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</tbody>
</table>

Notice of Non-discrimination Policy
The University of Charleston does not discriminate against any person because of race, color, religion, sex, national or ethnic origin, age, disability, or veteran status in administration of its educational policies, scholarship and loan programs, admissions, employment, athletics, and other school-administered programs in accordance with the laws of the United States and the state of West Virginia.
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### Music Minor

Music Minor

### DEPARTMENT OF NATURAL SCIENCES & MATHEMATICS

#### Mathematics

Mathematics

#### Natural Sciences

Natural Sciences

#### Physical Sciences

Physical Sciences

#### Biology Major

Biology Major

#### Biology Minor

Biology Minor

#### Pre-Professional Track

Pre-Professional Track

#### Pre-Physician Assistant Track

Pre-Physician Assistant Track

#### Biology Data Analytics Track

Biology Data Analytics Track

#### Chemistry Major

Chemistry Major

#### Chemistry Minor

Chemistry Minor

#### Chemistry Data Analytics Track

Chemistry Data Analytics Track

#### Chemistry Major with Pre-Pharmacy Track

Chemistry Major with Pre-Pharmacy Track

#### Chemistry-Biology Dual Major

Chemistry-Biology Dual Major

### DEPARTMENT OF SOCIAL SCIENCES

#### History-Political Science Major

History-Political Science Major

#### History Minor

History Minor

#### Political Science Major

Political Science Major

#### Political Science Minor

Political Science Minor

#### Criminal Justice Minor

Criminal Justice Minor

#### Psychology Major

Psychology Major

#### Psychology Minor

Psychology Minor

#### Regional Studies in Appalachia Minor

Regional Studies in Appalachia Minor

### HERBERT JONES SCHOOL OF BUSINESS AND LEADERSHIP

#### Bachelor of Science in Business Administration (B.S.B.A.)

Bachelor of Science in Business Administration (B.S.B.A.)

#### Minor in Business Administration

Minor in Business Administration

#### Associate of Science Degree in Business Administration

Associate of Science Degree in Business Administration

#### Accounting Major

Accounting Major

#### Business Analytics Major

Business Analytics Major

#### Digital Marketing Major

Digital Marketing Major

#### Entrepreneurship Major

Entrepreneurship Major

#### Entrepreneurship Minor

Entrepreneurship Minor

#### Financial Planning Major

Financial Planning Major

#### Management Major

Management Major

#### Sport Analytics Major

Sport Analytics Major

#### Sport Business Major

Sport Business Major
Sport Media Major
Military Science Program (ROTC)
Bachelor of Science in Cybersecurity Major
Organizational Leadership Major
Organizational Leadership Concentrations
Organizational Leadership Minor
Crisis and Emergency Leadership Major
Frontline Leadership Major
Master of Business Administration
Online Master of Business Administration
Master of Science in Cybersecurity
Master of Science in Strategic Leadership
Doctor of Executive Leadership

BERT BRADFORD SCHOOL OF HEALTH SCIENCES

CAPITO DEPARTMENT OF NURSING
Associate Degree In Nursing
Bachelor of Science in Nursing
Nursing RN-BSN

DEPARTMENT OF HEALTH SCIENCES
Exercise Science Major
Strength & Conditioning Minor
Health Promotion Major
Athletic Training Program
Occupational Therapy Assistant Program
Radiologic Science Major
Radiologic Technology Program

DEPARTMENT OF PHYSICIAN ASSISTANT
Master of Physician Assistant Studies (MPAS)

SCHOOL OF PHARMACY
School of Pharmacy Grade Point Average (GPA)
Special Requirements
Residency Program
PharmD/MBA Dual Degree Program
Scholar in Geriatric Pharmacy Track

UNDERGRADUATE COURSE LISTINGS
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Accounting (ACCT)
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# Academic Calendar

## Fall 2019

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<thead>
<tr>
<th>Week</th>
<th>15-Week Classes</th>
<th>Online 7-Week Classes</th>
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<tbody>
<tr>
<td>Week 1 8/26–9/1</td>
<td>8/26 Classes Begin</td>
<td>8/26 Session A Classes Begin</td>
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<tr>
<td></td>
<td>8/30 Last Day to Add Classes</td>
<td>8/28 Last Day to Add Classes</td>
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<tr>
<td>Week 2 9/2–9/8</td>
<td>9/2 Community Service Day</td>
<td>9/2 Community Service Day</td>
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<td>9/4 Attendance Report Due</td>
<td>9/4 Attendance Report Due</td>
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<tr>
<td></td>
<td>9/6 Last Day to Drop w/o W</td>
<td>9/6 Last Day to Drop w/o W</td>
</tr>
<tr>
<td>Week 3 9/9–9/15</td>
<td>9/10 1st Freeze Day</td>
<td>9/16 Last Day to Drop w/o WF</td>
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<tr>
<td></td>
<td>9/13 Athlete Grade Check</td>
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<tr>
<td>Week 4 9/16–9/22</td>
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<tr>
<td>Week 5 9/23–9/29</td>
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<td>Week 6 9/30–10/6</td>
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</tr>
<tr>
<td>Week 7 10/7–10/13</td>
<td>10/9 Mid-term Grades Due</td>
<td>10/13 Session A Classes End</td>
</tr>
<tr>
<td></td>
<td>10/11 No Classes - Fall Break</td>
<td>10/11 No Classes - Fall Break</td>
</tr>
<tr>
<td>Week 8 10/14–10/20</td>
<td></td>
<td>10/15 Final Grades Due</td>
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<tr>
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<td></td>
<td>10/18 Last Day to Register for Session B</td>
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<tr>
<td>Week 9 10/21–10/27</td>
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<td>10/21 Session B Classes Begin</td>
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<td></td>
<td>10/23 Last Day to Add Classes</td>
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<tr>
<td>Week 10 10/28–11/3</td>
<td></td>
<td>10/30 Attendance Report Due</td>
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<tr>
<td></td>
<td></td>
<td>11/1 Last Day to Drop w/o W</td>
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<tr>
<td>Week 11 11/4–11/10</td>
<td>11/6 Last Day to Drop w/o WF</td>
<td>11/5 2nd Freeze Day</td>
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<tr>
<td>Week 12 11/11–11/17</td>
<td>11/10 Athlete Grade Check</td>
<td>11/11 Last day to Drop w/o WF</td>
</tr>
<tr>
<td>Week 13 11/18–11/24</td>
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<tr>
<td>Week 14 11/25–12/1</td>
<td>11/25-12/1 Thanksgiving Break</td>
<td>11/25-12/1 Thanksgiving Break</td>
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<tr>
<td>Week 15 12/2–12/8</td>
<td>12/7 Graduation</td>
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<tr>
<td>Week 16 12/9–12/15</td>
<td>12/9 Semester Classes End</td>
<td>12/15 Session B Classes End</td>
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<td></td>
<td>12/10-12/13 Final Exam Period</td>
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<tr>
<td>Week 17 12/16–12/22</td>
<td>12/17 Final Grades Due</td>
<td>12/17 Session B Final Grades Due</td>
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**15-Week:** 8/26 – 12/13  
**Session A:** 8/26 – 10/13  
**Session B:** 10/21 – 12/15
### Spring 2020

<table>
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<tr>
<th>Week</th>
<th>15-Week Classes</th>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td><strong>Week 1</strong></td>
<td>1/13 Classes Begin</td>
<td>1/13 Session A Classes Begin</td>
</tr>
<tr>
<td>1/13–1/19</td>
<td>1/17 Last Day to Add Classes</td>
<td>1/15 Last Day to Add Classes</td>
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<tr>
<td><strong>Week 2</strong></td>
<td>1/20 Community Service Day</td>
<td>1/20 Community Service Day</td>
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<tr>
<td>1/20–1/26</td>
<td>1/22 Attendance Report Due</td>
<td>1/22 Attendance Report Due</td>
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<tr>
<td></td>
<td>1/24 Last Day to Drop w/o W</td>
<td>1/24 Last Day to Drop w/o W</td>
</tr>
<tr>
<td><strong>Week 3</strong></td>
<td>1/28 1st Freeze Day</td>
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<tr>
<td>1/27–2/2</td>
<td>1/31 Athlete Grade Check</td>
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<tr>
<td><strong>Week 4</strong></td>
<td>2/3 Last Day to Drop w/o WF</td>
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<td>2/3–2/9</td>
<td>1/20 Community Service Day</td>
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<td><strong>Week 5</strong></td>
<td>2/10–2/16</td>
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<td><strong>Week 6</strong></td>
<td>2/17–2/23</td>
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<tr>
<td><strong>Week 7</strong></td>
<td>2/26 Mid-term Grades Due</td>
<td>3/1 Session A Classes End</td>
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<td><strong>Week 8</strong></td>
<td>3/9 Session B Classes Begin</td>
<td>3/3 Final Grades Due</td>
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<tr>
<td><strong>Week 9</strong></td>
<td>3/11 Last Day to Add Classes</td>
<td>3/18 Attendance Report Due</td>
</tr>
<tr>
<td>3/16–3/22</td>
<td>3/20 Last Day to Drop w/o W</td>
<td>3/24 2nd Freeze Day</td>
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<tr>
<td><strong>Week 10</strong></td>
<td>3/25 Last Day to Drop w/o WF</td>
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<tr>
<td>3/23–3/29</td>
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<td>3/30–4/5</td>
<td>3/30 Last day to Drop w/o WF</td>
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<tr>
<td><strong>Week 12</strong></td>
<td>4/8 No Classes – I-3 Day</td>
<td>4/8 No Classes – I-3 Day</td>
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<td>4/6–4/12</td>
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<tr>
<td><strong>Week 13</strong></td>
<td>4/13–4/19</td>
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<tr>
<td><strong>Week 14</strong></td>
<td>4/20–4/26</td>
<td>4/26 Session B Classes End</td>
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<td><strong>Week 15</strong></td>
<td>4/27 Semester Classes End</td>
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<tr>
<td>4/27–5/3</td>
<td>4/28-5/1 Final Exam Period</td>
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<tr>
<td><strong>Week 16</strong></td>
<td>5/2 Graduation</td>
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<td><strong>5/4</strong></td>
<td>5/2 Graduation</td>
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**15-Week:** 1/13 – 5/1  
**Session A:** 1/13 – 3/1  
**Session B:** 3/9 – 4/26
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<td>5/11 Session A Classes Begin&lt;br&gt;5/13 Last Day to Add Classes</td>
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<tr>
<td>Week 2</td>
<td>5/20 Attendance Report Due&lt;br&gt;5/22 Last Day to Drop w/o W</td>
<td>5/20 Attendance Report Due Session A&lt;br&gt;5/22 Last Day to Drop w/o W</td>
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<tr>
<td>Week 3</td>
<td>5/25 No Classes – Memorial Day&lt;br&gt;5/26 1st Freeze Day</td>
<td>5/25 No Classes – Memorial Day</td>
<td>5/26 Session C Classes Begin&lt;br&gt;5/27 Last Day to Add Classes</td>
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<td>Week 4</td>
<td>6/1 Last Day to Drop w/o WF</td>
<td>6/1 Last Day to Drop w/o W</td>
<td>6/8 Last Day to Drop w/o WF</td>
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<tr>
<td>Week 5</td>
<td>6/24 Mid-Term Grades Due</td>
<td>6/28 Session A Classes End</td>
<td>6/28 Session C Classes End</td>
</tr>
<tr>
<td>Week 6</td>
<td>7/3 No Classes&lt;br&gt;4th of July Break</td>
<td>6/30 Final Grades Due Session A&lt;br&gt;7/2 Last Day to Register for Session B</td>
<td>6/30 Final Grades Due Session C</td>
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<tr>
<td>Week 7</td>
<td>7/6 Session B Classes Begin&lt;br&gt;7/8 Last Day to Add Classes</td>
<td>7/10 Last Day to Register for Session D</td>
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<tr>
<td>Week 8</td>
<td>7/15 Attendance Report Due Session B&lt;br&gt;7/17 Last Day to Drop w/o W</td>
<td>7/13 Session D Classes Begin&lt;br&gt;7/14 Last Day to Add Classes - Session D</td>
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<td>7/22 Last Day to Drop w/o WF</td>
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<td>7/20 Last Day to Drop w/o W - Session D</td>
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<td>7/27 Last Day to Drop w/o WF - Session D</td>
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<tr>
<td>Week 11</td>
<td>8/17 Semester Classes End&lt;br&gt;8/19 Final Grades Due</td>
<td>8/23 Session B Classes End&lt;br&gt;8/25 Final Grades Due Session B</td>
<td>8/17 Final Grades Due Session D</td>
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MESSAGE FROM THE PRESIDENT

Welcome to the University of Charleston. I am delighted that you are attending UC!

The mission of the University of Charleston is to educate each student for a life of productive work, enlightened living and community involvement. Our faculty and staff look forward to helping you achieve great success in each of these ways.

Innovation is a UC hallmark. We are continually developing and revising programs to meet student interests and market needs. Our state-of-the-art Wehrle Innovation Center provides you with many opportunities to nurture your entrepreneurial spirit and test drive some of the latest technology. By developing and deepening your innovation skills, you will acquire the mindset and skills necessary to stand apart in today’s competitive job markets.

Throughout the curriculum, you will experience our nationally recognized, outcomes-based approach to student learning. UC’s six Liberal Learning Outcomes areas are Citizenship, Communication, Creativity, Critical Thinking, Ethical Practice and Inquiry. Opportunities to demonstrate these outcomes are embedded across courses in all majors. This unique curriculum provides you with the characteristics that employers look for in new hires.

The information included in this catalog is designed to assist you in navigating the process of earning your degree. You will find contact information, curriculum requirements, and other information necessary to make this process easier.

We are sincere about our mission, excited about your future, and committed to assisting you in achieving…and surpassing…your goals.

Martin S. Roth
President
THE UNIVERSITY OF CHARLESTON

THE UC MISSION

The mission of the University of Charleston is to educate each student for a life of productive work, enlightened living, and community involvement.

Productive Work

The University prepares students to contribute to society. His or her work will vary tremendously, but we hope that each graduate will improve his or her world. “Productive” work isn't defined by only by acquisition of wealth, but also by the positive impact of the work on the graduate's community and world.

Enlightened Living

College graduates must possess a broad range of knowledge to thrive in modern society. Graduates should be scientifically, economically, politically, aesthetically, and culturally literate. They should have a sense of history and shared values, and a commitment to moral purpose and personal character.

Community Involvement

Finally, the University attempts to develop within every student a commitment to involvement in his or her community – at local, state, national and global levels. The foundation of our democratic society rests on community involvement, so we want graduates to take responsibility for leadership and initiative in shaping organizations, institutions, and communities.

The University realizes this mission by assisting each student to:

- Develop the skills and knowledge necessary to contribute to society and find personal fulfillment through a profession, vocation, or avocation;
- Develop his or her potential for informed appreciation of and creative contribution to the arts;
- Develop a commitment to uphold the duties of citizenship through regular service to and effective involvement in his or her community.

The University’s Core Values

We are student focused – we create our students’ success; we celebrate their accomplishments, champion and endorse diversity, and live our mission.

We have integrity – we promote trust and transparency, respect and applaud the work of our colleagues, are responsible for our actions, encourage collaboration, and develop character.

We provide quality – We are committed to quality service, strive for excellence in all we do, promote a culture that inspires innovation, and cultivate leaders.
HISTORY OF THE UNIVERSITY OF CHARLESTON

The University of Charleston is an independent, comprehensive institution of higher education located in the capital city of West Virginia. Founded by the Methodist Episcopal Church, South in 1888 as Barboursville Seminary, the institution was originally located in the rural community of Barboursville, West Virginia. The institution became Morris Harvey College in 1901 to honor a prominent donor. In 1935 the College responded to a request from Charleston businessmen and moved to the state’s capital city.

As a result of a merger between the Methodist Episcopal Church, North and South, the College disaffiliated from the denomination and became independent in 1942. The institution grew between 1935 and 1960, due in part to mergers with Kanawha Junior College and Mason College of Fine Arts and Music. On December 13, 1978, the Board of Trustees changed the name of the institution to the University of Charleston to reflect the institution’s strong ties to the local community and to recognize the diversity of programs offered by the institution.

In the mid-1990s the University made demonstrable student learning its central educational focus. The curriculum was redesigned to incorporate specific learning outcomes, based in the liberal arts, in all academic programs. Successful achievement of these outcomes, in the areas of Citizenship, Communication, Creativity, Critical Thinking, Ethical Practice and Inquiry, is now required of all students seeking a degree.

The University of Charleston benefits greatly from its location in the state’s capital city and proximity to the state’s largest medical, commercial and financial centers, and to major research and manufacturing facilities, all of which provide excellent opportunities for learning experiences outside the classroom. The University, in return, serves the community as a focal point for intellectual, cultural, athletic, and civic events. These interactions between the University and community are vital to the achievement of the University’s mission.

In January 2013 the University of Charleston expanded regionally, and today operates locations both in Charleston and Beckley WV. The development of online and hybrid courses and programs have further enriched the institution’s academic programs. Over 2,500 students are now enrolled in classes at UC.

On June 30, 2018 UC President Edwin H. Welch retired after 29 years of service. The University welcomed its new President, Dr. Martin Roth, on July 1, 2018.
THE CURRICULUM

UC’s outcomes-based curriculum requires each course and degree program to have clear statements about the skills or knowledge a student must demonstrate (competencies) to meet a specific learning goal (outcome). In addition, performance expectations and how that performance is evaluated (assessment) must also be well-defined. Sharing this information in advance of coursework ensures that students and faculty have a shared understanding of the expected coursework and how it will be judged. This approach provides a rich educational experience.

THE LIBERAL LEARNING OUTCOMES

At the core of the University’s curriculum are its Liberal Learning Outcomes (LLOs). To be an educated citizen in the 21st century and engage in “enlightened living,” a student must be able to communicate effectively, act ethically, respond aesthetically, and engage in creative thought in his or her professional and personal life. He or she must also be able to think critically and analytically and be able to locate and evaluate information necessary for discipline-specific research and the pursuit of life-long learning.

To help students acquire these competencies the University of Charleston has developed a curriculum with a solid foundation in the liberal arts. Students must demonstrate achievement in six Liberal Learning Outcome areas: Citizenship, Communication, Creativity, Critical Thinking, Ethical Practice, and Inquiry.

LLOs must be demonstrated at multiple levels before an outcome is met. Opportunities to practice skills and demonstrate competencies occur in courses and other learning experiences, within and outside the student’s major field. Liberal Learning Outcomes are tightly woven into the curriculum in all academic programs.

There are a variety of ways students can demonstrate achievement of our LLOs. These are described in the Academic Policies section of this Catalog.

Many students complete external learning activities within their major while at the University of Charleston. Clinical and field experiences, service learning, community service projects and internships all provide insight into a profession or practical experience in the student’s chosen field of productive work.

These experiences, in and out of the classroom, create an integrated educational experience and provide evidence that each student leaves the University prepared to live a life of productive work, enlightened living, and community involvement.
LIBERAL LEARNING DEFINITIONS AND COMPETENCIES

1. Citizenship – the rights and responsibilities that are associated with social, political, and economic communities that an individual demonstrates as an engaged and knowledgeable member of a society.
   1.1 The graduate demonstrates an understanding of social, political, and economic institutions. (Civic Literacy - foundational)
   1.2 The graduate demonstrates an understanding of global awareness. (Global Literacy – mid-level)
   1.3 The graduate demonstrates an understanding of key historical patterns in human civilization and their relationship to the present. (Historical Literacy – mid-level)
   1.4 The graduate demonstrates active and responsible citizenship. (Civic Involvement – advanced level)

2. Communication – the ability to effectively send and receive messages.
   2.1 The graduate writes effectively for a variety of audiences and purposes.
      • Demonstrate at foundational level
      • Demonstrate at mid-level
      • Demonstrate at advanced level
   2.2 The graduate speaks effectively to a variety of audiences for a variety of purposes.
      • Demonstrate at foundational level
      • Demonstrate at mid-level
      • Demonstrate at advanced level
   2.3 The graduate reads effectively

3. Creativity – the process of generating original ideas or making new connections among existing ideas for the advancement of human endeavor.
   3.1 The graduate is able to critique the creative product in traditional creative disciplines.
      • Demonstrate at foundational level (1 experience)
   3.2 The graduate engages in the study or production of a body of work.
      • Demonstrate at mid-level (2 experiences)
   3.3 The graduate demonstrates creative ability in the major.
      • Demonstrate at advanced Level (1 experience)

4. Critical Thinking – the process of reflection, reasoning and imagining, through which the individual willingly, systematically, and habitually examines and explores statements, problems, issues, beliefs, and social constraints. The graduate demonstrates these competencies at each level: (1) an attitude of intellectual inquiry; (2) information literacy; and (3) critical, analytical, and reflective thinking skills [metacognition].
   4.1 Foundational level (2 experiences)
   4.2 Mid-level (4 experiences)
   4.3 Advanced level (1 experience in the major and 1 experience outside the major, i.e. Senior Capstone UNIV 459 or UNIV 460)
5. **Ethical Practice** – the disposition to treat others with honesty, fairness, justice, integrity, and altruism within communities and areas of professional service. The graduate demonstrates these competencies at each level: (1) an understanding of their ethical beliefs and the ethical beliefs of others; (2) the ability to identify ethical conflicts; and (3) the ability to make ethical decisions.

5.1 Foundational level (1 experience)  
5.2 Mid-level (2 experiences)  
5.3 Advanced level (1 experience)

6. **Inquiry** – the application of concepts and tools to create, verify and communicate new knowledge.

6.1 The graduate will understand and apply basic principles of science and mathematics.

6.1M The graduate demonstrates understanding and competence in applying the fundamental theories and laws of mathematics.

- Foundational level - Mathematics (1 experience)

6.1S The graduate demonstrates understanding and competence in applying the fundamental theories and laws of science.

- Foundational level - Science (1 experience)

6.2 The graduate will analyze and interpret data in a variety of contexts using mathematical and scientific principles.

- Mid-level – Application of Mathematics and Science (1 experience)

6.3 The graduate will create new knowledge using principles of inquiry appropriate to his/her discipline.

- Advanced level – Research in Major/discipline (1 experience)

**Note:** All Liberal Learning Outcomes may also be demonstrated through a Roundtable-approved Independent Learning Plan (ILP).

Students are supported in the acquisition of the skills and knowledge associated with the Liberal Learning Outcomes (LLOs) by a University (UNIV) Program. UNIV courses introduce the LLOs and ultimately assesses student achievement of exit-level competencies. The program includes:

UNIV 101. Orientation to the University – for freshmen  
UNIV 102. The University Experience – for freshmen  
UNIV 203 University Transition – for Transfer students  
First Year Experience (FYE) courses in Humanities, Social Science, and Natural Science  
UNIV 459 or 460. Senior Capstone

Incoming freshmen students are paired with a faculty mentor, who will also be their UNIV 101/102 instructor. The Mentor serves the student as an informed guide, as an advocate, and as a role model. Incoming students are also assigned a major advisor who provides advice on appropriate coursework or other issues associated with a particular academic discipline or major field of study.
ADULT LEARNING PATHWAY

The Adult Learning Pathway is designed to offer a general education curriculum for students in those programs which have no traditional Charleston in-seat counterpart, such as Organizational Leadership, Associate Degree Nursing (both Charleston and Beckley), RN-BSN program, Bachelor of Science in Criminal Justice, Occupational Therapy Assistant (OTA) and Radiologic Technology. Each program has determined their own unique adult pathway which meets the specific needs of their particular students.

Learning Outcomes

1. **Analytics (Critical Thinking)**. The graduate demonstrates intellectual inquiry, information literacy, and critical, analytical, and reflective thinking skills.
2. **Communication (Communication)**. The graduate demonstrates the ability to write, speak and read effectively.
3. **Technology** The graduate demonstrates the ability to effectively use technology to collect, analyze, evaluate, and disseminate qualitative and quantitative data.
4. **Innovation (Creativity and Inquiry)** The graduate demonstrates the ability to innovate, to apply concepts and tools to create, verify, and communicate new knowledge.
5. **Values (Ethical Practice)**. The graduate demonstrates the disposition to treat others with honesty, fairness, justice, integrity, and altruism within communities and areas of professional service.
6. **Engagement (Citizenship)**. The graduate demonstrates an understanding of social institutions, global awareness, and key historical patterns and demonstrates active and responsible citizenship.
ASSESSMENT – TO DEMONSTRATE LEARNING

The University of Charleston systematically measures students’ learning using a variety of assessment strategies. Results of these assessments are used to strengthen academic programs and improve learning and teaching. They provide information about the level of a student’s skills or knowledge and can be used to measure growth of learning over time. Assessments include, but are not limited to, those described below.

Placement Assessments

Scores on ACT or SAT examinations, when available, may be used to identify weaknesses in basic academic skills. Other assessments may also be used for this purpose. When weaknesses are identified, it is suggested that students participate in skill building sessions or classes designed to increase performance in such core areas as writing, reading, or mathematics. The classes are available through the Academic Success Center.

Some academic programs, such as those in the natural sciences, also have departmental placement examinations to assure that students are placed in appropriate courses. These assessments are generally administered during freshmen and transfer orientation sessions.

Please see the entry for Placement in the Academic Policies section of this Catalog.

Program Admission Assessments

Some academic programs, including Teacher Education and most Health Science programs, require passing scores on specific, standardized tests before students are admitted to the programs. In addition to these tests students must meet other admission requirements as stated by the program. A student may be admitted to the University and still be denied admission to a specific program if its admission requirements are not achieved. Students should check with program faculty about these requirements.

Assessment of New Students

To establish a baseline of learning, incoming students may be required to take assessments. These are typically administered online in UNIV 101 and UNIV 203.
<table>
<thead>
<tr>
<th>Name of Major</th>
<th>Degree</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Arts &amp; Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied Computer Science</td>
<td>BS</td>
<td>Charleston</td>
</tr>
<tr>
<td>Cybersecurity &amp; Information Assurance Major</td>
<td></td>
<td>Charleston</td>
</tr>
<tr>
<td>Art</td>
<td>BA</td>
<td>Charleston</td>
</tr>
<tr>
<td>Graphic Design</td>
<td></td>
<td>Charleston</td>
</tr>
<tr>
<td>Studio Art</td>
<td></td>
<td>Charleston</td>
</tr>
<tr>
<td><strong>Biology</strong></td>
<td>BS</td>
<td>Beckley, Charleston</td>
</tr>
<tr>
<td>Pre-Pharmacy</td>
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<td>Charleston</td>
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<tr>
<td>Pre-Professional</td>
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<tr>
<td>Data Analytics Concentration</td>
<td></td>
<td>Charleston</td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td>BS</td>
<td>Charleston</td>
</tr>
<tr>
<td>Pre-Pharmacy</td>
<td></td>
<td>Charleston</td>
</tr>
<tr>
<td>Pre-Professional</td>
<td></td>
<td>Charleston</td>
</tr>
<tr>
<td>Chemistry-Biology Dual Major</td>
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<td>Charleston</td>
</tr>
<tr>
<td>Data Analytics Concentration</td>
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<td>Charleston</td>
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<tr>
<td><strong>Data Analytics</strong></td>
<td>BS</td>
<td>Charleston</td>
</tr>
<tr>
<td><strong>Digital Media Design</strong></td>
<td>BS</td>
<td>Charleston</td>
</tr>
<tr>
<td><strong>Education</strong></td>
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<td>Charleston</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>BA</td>
<td>Charleston</td>
</tr>
<tr>
<td>Elementary Education/Special Education</td>
<td>BA</td>
<td>Charleston</td>
</tr>
<tr>
<td>Secondary Special Education</td>
<td>BS</td>
<td>Charleston</td>
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<tr>
<td>Elementary Studies and Child Development</td>
<td>BA</td>
<td>Charleston</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td>BA</td>
<td>Charleston</td>
</tr>
<tr>
<td><strong>History/Political Science</strong></td>
<td>BA</td>
<td>Charleston</td>
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<td><strong>Individualized Majors</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Studies</td>
<td>BA &amp; BS</td>
<td>All Locations</td>
</tr>
<tr>
<td>Multidisciplinary Studies</td>
<td>BA &amp; BS</td>
<td>All Locations</td>
</tr>
<tr>
<td><strong>Communication</strong></td>
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<tr>
<td><strong>Political Science</strong></td>
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<tr>
<td>Pre-Law</td>
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<td>Charleston, Online</td>
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<td><strong>Psychology</strong></td>
<td>BS</td>
<td>Charleston</td>
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<td>Accounting Major</td>
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<tr>
<td>Business Analytics Major</td>
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<tr>
<td>Digital Marketing Major</td>
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<tr>
<td>Entrepreneurship Major</td>
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<tr>
<td>Financial Planning Major</td>
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<tr>
<td>Management Major</td>
<td></td>
<td>Charleston/Online</td>
</tr>
<tr>
<td>Sport Analytics Major</td>
<td></td>
<td>Charleston</td>
</tr>
</tbody>
</table>
Statement on Specialized Accreditation

The University of Charleston is committed to excellence in each program that is offered to students. We regularly review program and liberal learning outcome data to evaluate how our students are doing during and at the end of each program. Specialized accreditation is sought and maintained for appropriate programs. (For a listing of currently specialized accredited programs, go to Accreditation and Memberships lists in the front of this Catalog.)

In the unlikely event a decision is made to end a program holding specialized accreditation, UC will provide opportunities to teach-out current students according to the regulations of the specialized accrediting agency, the requirements of the Higher Learning Commission, and any applicable federal or state law.
ACADEMIC MINORS

The university offers minors in several disciplines. Minors provide a pathway for students to acquire some expertise in a discipline outside their major field of study. A student who elects the Multidisciplinary Studies major forms that degree program by selecting three, related minors from the list below.

<table>
<thead>
<tr>
<th>Approved Academic Minor</th>
<th>Credits Required for the Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Minor</td>
<td>18</td>
</tr>
<tr>
<td>Biology Minor</td>
<td>19</td>
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<tr>
<td>Business Administration Minor</td>
<td>21</td>
</tr>
<tr>
<td>Chemistry Minor</td>
<td>18</td>
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<tr>
<td>Criminal Justice Minor</td>
<td>18</td>
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<td>Entrepreneurship Minor</td>
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<tr>
<td>Graphic Design Minor</td>
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<tr>
<td>History Minor</td>
<td>18</td>
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<tr>
<td>Historic Preservation Certificate</td>
<td>18</td>
</tr>
<tr>
<td>Communication Minor</td>
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</tr>
<tr>
<td>Music Minor</td>
<td>23</td>
</tr>
<tr>
<td>Organizational Leadership Minor</td>
<td>18</td>
</tr>
<tr>
<td>Political Science Minor</td>
<td>18</td>
</tr>
<tr>
<td>Professional Writing In English Minor</td>
<td>18</td>
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<tr>
<td>Psychology Minor</td>
<td>18</td>
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<tr>
<td>Regional Studies - Appalachia Minor</td>
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<tr>
<td>Sport Business Minor</td>
<td>18</td>
</tr>
<tr>
<td>Strength &amp; Conditioning Minor</td>
<td>18</td>
</tr>
</tbody>
</table>
OFFICE OF ADMISSIONS

Joan Clark, Executive Vice President and Chief Admissions & Marketing Officer

Admission Philosophy

The University of Charleston seeks to enroll students who possess the potential and motivation to take full advantage of our unique curriculum, be successful academically, and contribute to the University community. Admission is based on academic records, evidence of leadership and community involvement, and demonstrated personal qualities of the applicant.

Admissions Office Mission Statement

The Office of Admissions seeks to identify, counsel, and enroll students who possess the potential and motivation to be successful in their pursuit of intellectual growth in their chosen major or career path and social growth in their on- and off-campus outreach for enlightened living and community involvement.

A visit to campus, scheduled with the Office of Admissions in Charleston or Beckley, is strongly recommended for all in-seat applicants. To schedule a campus visit, please contact us at 1-800-995-4682 (GO UC) or 1-304-357-4750.

Standardized Tests

Results of the American College Test (ACT) or the Scholastic Assessment Test (SAT) are required for certain classes of applicants and/or for certain degree programs, as described below in the “Admission Requirements.”

Most individuals take the ACT or SAT on a national testing date. However, the University of Charleston is authorized to administer the ACT Residual Test to applicants who need test results to complete their application to the University of Charleston. Such results may be used only at the University of Charleston. ACT Residual Test results from another institution will not be recognized for admission to the University of Charleston.

Special Admission Requirements

Some programs, most notably Health Sciences and Education, have special and separate programmatic admission requirements. Applicants should consult program descriptions in this Catalog for a complete description of any special or additional requirements specific to the program or programs in which they are interested.

UNDERGRADUATE ADMISSION REQUIREMENTS

General Freshman Admission

A student applying for general freshman admission may submit an application any time after the completion of six semesters of high school. Admission requirements are:

- Minimum 2.6 academic grade point average (on a 4-point scale); or GED or TASC score of 500 (50 if taken prior to 1/1/2003).
Applicants are encouraged to take the ACT or SAT tests prior to their senior year in high school but are not required to submit the score for admission to the University. The test scores will, however, be needed for placement into the first semester of coursework.

Notes regarding the American College Test (ACT) and the Scholastic Aptitude Test (SAT): Official scores are required for recipients of WV PROMISE Scholarship and various internal and external scholarships. Results of the ACT or SAT are highly recommended for those applicants who graduated from high school (or would have graduated, for those who earned a GED/TASC) within five years of the time of application. For applicants removed from high school for over five years, these tests may be recommended. If appropriate, a Residual ACT can be offered by the Office of Admissions if requested by the applicant in a timely fashion and the standardized tests and are no longer being offered prior to the start of the school year. If such an applicant elects not to take the ACT or SAT, he or she may be placed in foundational courses (specifically, math and science) upon successful admission and subsequent enrollment. These tests are required for students seeking admission to a health sciences programs and will be acquired during the admission process into the specific program.

Applicants must submit the following documentation for consideration by Admissions staff:

- Completed Undergraduate Application for admission;
- $25.00 Application fee or application fee waiver;
- Official secondary school records documenting completion of 15 units of academic courses with grades indicating intellectual ability and promise;
- High school transcripts or official GED/TASC results with an average score of 50 (prior to January 1, 2003) and 500 or more on the new test (after January 1, 2003), if applicable;
- Students may self-report their high school GPA to be conditionally admitted; however, transcripts must be received with the GPA noted prior to the student getting registered. All admissions standards will apply and failure to present truthful information will be grounds for revocation of the acceptance.
- A campus visit, either in group format or as an individual, is strongly recommended;
- A personal essay and resume are recommended but not required unless the student will be competing for scholarship awards. Student essays may be about their potential for leadership and/or the importance of community involvement;
- A record of active participation in school or community organizations or events throughout high school is also recommended;
- Applicants accepted by the University of Charleston must submit proof of high school graduation or GED/TASC to the University’s Office of Admissions prior to registering for a second semester via a final official transcript. Note: UC does not currently accept modified diplomas
- Official AP score will be reviewed in July and credit granted (if applicable); Official transcripts from an accredited university (if applicable);
- Online applicants must submit a valid driver’s license or state issued photo identification.
ADMISSION BY ACADEMIC CONTRACT FOR FRESHMEN STUDENTS

Applicants whose scores fall below a 2.6 must submit an essay (at least one page in length, single spaced) containing the following information:

Explanation of low scores and/or significant discrepancies between GPAs and test score composites;
Description of applicant’s college readiness and preparedness;
Career goals; and
Other items the applicant and admissions counselor deem relevant to their application.

An applicant can choose to submit this essay at the time of application. However, the Office of Admissions will formally request it after receipt of all required materials necessary for review.

Throughout the application process, the Office of Admissions’ first preference is for students to improve their GPA (during their remaining high school courses). Increased test scores can also be used to demonstrate readiness for college level work.

Additionally, the Office of Admissions may request an interview with the applicant. Neither the essay nor the interview guarantees admission.

The Executive Vice-President & Chief Admissions and Marketing Officer will review applications that fall between a 2.25-2.59 GPA. Applicants who maintain a GPA below a 2.25 will be reviewed by the Student Affairs Committee for admission to the University.

Applicants who demonstrate the ability to be successful in a university environment may be offered admission into the Academic Success Academy. As part of this program, students will participate in a curriculum specifically designed to develop foundational academic skills for success in college and will have an hour cap of 15 hours. This includes:

- Meeting with Academic Success Academy Advisors during SOAR/Orientation and periodically during the term to assess academic success and connect with resources;
- Placement in Academic Success Academy courses (based on ACT/SAT sub-scores)
- COMM 101 (Stand-alone)- Foundational College Writing
- ASC 089- Academic Reading
- ASC 091- Personal Academic Success
- Students in the Academic Success Academy must achieve a minimum of a 2.0 GPA and passing grades in all Academic Success Academy coursework to exit from the program. Students who cannot successfully complete the requirements/curriculum in three semesters may be considered for academic probation or dismissal.
HOME SCHOOL ADMISSION

The University of Charleston makes every effort to accommodate the special circumstances of home school students during the admissions process. Minimum admission requirements include:

- If you are under the umbrella of a diploma-granting organization, you will need to submit evidence of the coursework completed and your level of performance;
- In the absence of such a document, you will need a detailed portfolio comprised of the breadth of work you have completed to help us evaluate your level of preparation for college-level work (e.g. research project, resume, reading list, community service, athletic and/or artistic endeavors and study abroad);
- If receiving WV financial aid such as WV PROMISE or WV Higher Ed Grant, the home-schooled student must also submit the GED/TASC to be in compliance with WV aid standards;
- Official transcript from an accredited university or college (if applicable);
- AP tests (if applicable);
- ACT/SAT test scores (only for placement into courses);
- Essay (recommended not required)
ADULT LEARNER FAST TRACK ADMISSIONS

The University of Charleston offers Fast Track Admissions (FTA) for potential students who meet the below criteria:

Over 25 years of age

or

Military service member
  ▪ Military good standing
  ▪ Eligible for Federal/State Tuition Assistance

or

Civilian
  ▪ Three continuous years of work experience (verified by letter of recommendation from employer to confirm length of employment)
  ▪ Eligible for third-party reimbursement

or

Displaced Worker
  ▪ Three years of work experience - documentation on a resume
  ▪ Displaced Worker Verification Worksheet completed (See attached displaced worker form)

If the student meets the above criteria, fast track acceptance may be granted with acknowledgement in writing of the following:

If tuition assistance or third-party payment is denied, I understand that I am financially responsible for the course(s) and fees associated with enrollment.

I will not be filling out a FAFSA to use Financial Aid at least for the first semester. NOTE: The FAFSA IS A SEPARATE FUNDING SOURCE THAT IS ADDITIONAL TO Federal TA or VA benefits.

If I chose to use the fast track option and have supplied a Combo JST, GoArmyEd report, or CCAF transcripts, I will still need to provide official transcripts for any course(s) for which I intend to receive college credit. If credit from a college or university is not desired, then transcripts will not be required.

If I decide to use Financial Aid, at a later date, I understand I will need to provide official transcripts from ALL schools attended prior to applying for Financial Aid.

I will not be able to register for courses in a subsequent semester or within 16 weeks if UC does not have receipt of my official transcripts, and any additional required application materials.

By signing below, I acknowledge the above conditions of the fast track acceptance.

Student's Signature ___________________________ Date ___________

Student’s Printed Name ____________________________________________
Fast Track Admissions process

Step One: Meet ONE of the following conditions

a. 25 years of age - date of birth as evidence (military members exempt from age requirement, other exceptions made by admissions as appropriate)

b. Military Personnel
   i. Must have JST, CCAF, GAE or Combo JST transcript
   ii. Must be in good standing with the military and have the ability to be approved for Tuition Assistance

Rationale: The military requires all servicemembers to be in good standing to be eligible for TA. This includes completion of Basic and Advanced Individual Training as indicated on the military transcript, and at least one year of service without any disciplinary actions.

c. Currently employed
   i. Three years of work experience (self-reported)
   ii. Letter of recommendation from current or previous supervisor (template provided indicating that it must be on company letterhead and officially signed) or verification of employment (employee ID, pay stub, etc.) Toyota employees may use the MOU addendum as a substitute for their recommendation letter.

d. Displaced Worker
   i. Three years of work experience - documentation on a resume
   ii. Displaced Worker Verification Worksheet completed (See attached)

Step Two: Determination of eligibility for fast track admissions

1. Student states and signs form that verifies that they are not using any Financial Aid
   a. Form Verifying non-use of FAFSA-related Financial Aid (FA) (See attached)

   b. Student verifies that they are going to use only third-party payer funds or private pay to pay for university bills.

   c. Student cannot receive FA without completing FAFSA

   d. The form will be filed within the Financial Aid file for that student.

Step Three: Conditional Acceptance

If the student meets the above conditions (Criteria and no FA), they are considered "conditionally accepted" and can proceed with registration for the next term/semester start. Admissions will be responsible for admitting the student and notifying them.

a. The student needs to know that original transcripts will be required for any course that is being accepted for any credits towards degree before being registered for the following semester (16 weeks). Advisors will assist the student in acquiring the necessary transcripts, although it is the student's ultimate responsibility. If admitted in the B term of any
semester, the due date is the beginning of the next B term start (i.e., Fall B 2018 must have all original transcripts completed by Spring B 2019). This is a HLC requirement and the Combo-JST is not sufficient documentation of coursework completed from a college or university if the student wishes to use the credit towards the UC degree.

b. An admissions PERC hold will be placed on the account and will be removed only by admissions after official transcripts are obtained from schools where college transfer credit is being received by UC.

**ADULT ADMISSIONS (NON-FAST TRACK)**

1. If a FAFSA is completed the student must have all official transcripts submitted from **ALL schools attended**, not just the ones that UC accepted transfer credits from for degree. UC will use a National Clearinghouse Report to identify all schools attended. The Financial Aid Office, in concert with Regional Student Solutions, will verify which transcripts need to be obtained by reviewing the file and the federal reports. The School of Business and Leadership assigned advisor will work cooperatively with the student and the Financial Aid Office to assure that all transcripts are acquired.

2. Once transcripts are received, the PERC hold may be lifted, and the student can proceed with registration for the next term/semester start. If this occurs after the first term, the Regional Student Solutions staff will be responsible for confirming receipt of any needed transcript, fully admitting the student, removing the hold and notifying the student.

**GENERAL TRANSFER ADMISSION**

Applicants who have earned 12 or more college-level credits (generally, courses numbered 100 and above) at another institution, have a minimum 2.0 grade point average (on a 4.0-point scale) and are in good standing at the institution last attended must submit the following documentation for consideration by Admissions staff:

- Completed online or paper Undergraduate Application for Admission;
- $25 application fee or application fee waiver;
- Unofficial transcripts at time of admissions and then Official transcript from EACH university or college previously attended by the start of the second semester;
- Transfer Clearance Form from most recent school attended (the Office of Admissions will advise applicants if they qualify to complete the form);

**Students who do not submit all required transcripts by the requested date will not be able to receive financial aid until all college transcripts are received; and do not submit all required transcripts by the requested date will not be able to receive financial aid until all college transcripts are received; and**

Applicants who have earned fewer than 12 college level credits must also submit high school and college transcripts.

Prospective transfer students may send their college transcripts at any time during their current college enrollment for transcript evaluation by the University of Charleston. Applicants who are accepted at the University of Charleston must submit a final official transcript to the Office of Admissions before the start of the second semester of enrollment. The Transfer Clearance Form is strongly recommended prior to enrollment.
but must be submitted prior to the start of second semester of enrollment. The Transfer Clearance Form is strongly recommended prior to enrollment but must be submitted prior to the start of second semester of enrollment.

Transfer applicants who have been granted general admission will have the opportunity to review the evaluation of his or her transcript after review by the Regional Records staff. Only non-remedial courses earned from a regionally accredited college or university will be considered for transfer. See Evaluation of Transfer Equivalency Policy Section. More information on the policies for evaluation of transfer credits and specific Articulation Agreements can be found on the HYPERLINK "http://www.ucwv.edu/UC-Life/Student-Resources/Student-Right-to-Know-Information/"Student Right-to-know Information page on the UC website. Only non-remedial courses earned from a regionally accredited college or university will be considered for transfer. See Evaluation of Transfer Equivalency Policy Section. More information on the policies for evaluation of transfer credits and specific Articulation Agreements can be found on the Student Right-to-know Information page on the UC website.

Only courses with earned grades of “C” or better will transfer unless a transfer agreement exists between the University of Charleston and another institution. No grades are recorded for courses accepted in transfer. A student’s grade point average at the University of Charleston will be based only upon credits earned at the University of Charleston.

**CONTRACT TRANSFER STUDENTS**

Applicants whose scores fall below a 2.0 must submit an essay (at least one page in length, single spaced) containing the following information:

- Explanation of low GPA;
- Description of applicant’s college readiness and preparedness;
- Career goals; and
- Other items the applicant and admissions counselor deem relevant to their application.

An applicant can choose to submit this essay at the time of application. However, the Office of Admissions will formally request it after receipt of all required materials necessary for review. Additionally, the Office of Admissions may request an interview with the applicant. Neither the essay nor the interview guarantees admission. The Executive Vice-President & Chief Admissions and Marketing Officer will review contract transfer applications.

Applicants who demonstrate the ability to be successful in a university environment may be offered admission into the Academic Success Academy. As part of this program, students will participate in a curriculum specifically designed to develop foundational academic skills for success in college and will have an hour cap of 15 hours. This includes:

- Meeting Academic Success Academy Advisors during SOAR/Orientation and periodically during the term to assess academic success and connect with resources; and
- Placement in Academic Success Academy courses (based on ACT/SAT sub-scores)
  - COMM 101 (Stand-alone) - Foundational College Writing
Students in the Academic Success Academy must achieve a minimum of a 2.0 GPA and passing grades in all Academic Success Academy coursework to exit from the program. Students who cannot successfully complete the requirements/curriculum in three semesters may be considered for academic probation or dismissal.

**ADMISSION TO UNDERGRADUATE DEGREE COMPLETION PROGRAMS**

Applicants who have prior learning credit such as military transcripts, law enforcement or first-responder training will be evaluated by the admissions staff to determine acceptance into the University and staff will work with program leaders to place the student into foundational coursework or straight into the degree completion program. If a student has college credits, all transcripts must be submitted for review in addition to the prior learning credits.

**STUDENTS SEEKING RE-ADMISSION**

Individuals who have previously attended Morris Harvey College or the University of Charleston as degree-seeking students, but who have not taken courses from the University for at least one academic year, may be considered for re-admission by the Executive Vice President and Chief Admissions and Marketing Officer.

The student must complete an Application for Admission available in the Office of Admissions or on the University’s website. The student’s standing within the Registrar, Financial Aid, Cashier, and Student Life offices must be assessed by each department’s designee. Based on their assessments, the Executive Vice President will make the final re-admission decision.

Applicants who have attended any college or university since leaving Morris Harvey College or the University of Charleston are considered readmit-transfer students and must follow both the transfer and readmit procedures.

**MILITARY STUDENT ADMISSION**

**THE UNIVERSITY IS A SUPPORTER OF THE US MILITARY**

Completed online or paper Undergraduate Application for Admission; Unofficial transcripts at time of admissions and then Official transcript from EACH university or college previously attended by the start of the second semester. Please submit directly to ucrecords@ucwv.edu or University of Charleston, 2300 MacCorkle Ave SE, Charleston, WV 25304 ATTN: Admissions

Official copy of Combo JST or other military training transcript.

If planning to use Tuition Assistance, Veterans Affairs benefits, or any other type of military funding, take steps to ensure all documentation has been submitted for those benefits. If you are unsure about your eligibility, please contact your Base Education Office or the Veterans Affairs Administration directly; UC is a GoArmyEd LOI school. GA students must simply request TA and register via the GA portal. Please contact taorva@ucwv.edu for guidance with setting up your GA benefits.
We are proud to offer resources on all chapters of Veterans & GI Benefits, as well as Tuition Assistance guides for each branch of the military; Please contact taorva@ucwv.edu for guidance with setting up your TA or GI Benefits.

Online applicants must submit a valid driver’s license or state issued photo identification; Please submit directly to ucrecords@ucwv.edu

**Students who do not submit all required transcripts by the requested date will not be able to receive financial aid until all college transcripts are received.**

**Transfer Equivalency for Liberal Learning Outcomes (LLOs)**

Courses with a direct equivalency to a University of Charleston course carrying LLO designations will automatically receive LLO credit; and

Students must bring requests for non-equivalent courses to the appropriate LLO Roundtable for approval. The necessary form and a description of the process for submission of these requests are available in the Student Solutions Center.

**INTERNATIONAL STUDENT ADMISSION**

International student applicants must follow the requirements for **general freshmen** or **transfer admission**, depending on the desired enrollment status. For progression policies see [English as a Second Language Progression Policy](#).

**English Exam Requirements**

International Students who do not take the ACT or SAT exams must submit a standardized English test score. The College Board’s [Test of English as a Foreign Language (TOEFL)](#), the [International English Language Testing System (IELTS)](#), and the [Duolingo](#) exams are accepted. Other standardized English exams are accepted only upon pre-approval from the Director of International Students.

A minimum score of 550 for the paper-based test (PBT) / 61 for the Internet-based test (IBT) on the TOEFL or an equivalent IELTS score of 6.0 is generally required. Students with Duolingo scores of 2.6 or higher for undergraduate work and 4.6 or higher for graduate level work may be considered for enrollment. Conditional admission is available to applicants who have not achieved the minimum English proficiency standards.

When international students whose primary language is not English and who have a TOEFL score below 70 arrive on campus they must take an English diagnostic exam, which includes a writing sample. The results will be used for placement purposes. Based on their scores, some students will be required to enroll in ESL courses. Once placed in this program, all required ESL courses must be passed with a grade of “C” or better.
Other International Admissions Requirements

Though American College Test (ACT) or Scholastic Assessment Test (SAT) results are recommended of international students whose first language is English, applicants should submit the results when they have taken either test. These results will help Admissions staff make an informed decision about placement.

International students wishing to receive transfer credits for any college or university level work completed prior to arrival at the University of Charleston must have all credits evaluated by an international transcript evaluation service, such as W.E.S. or E.C.E. when transcripts are not written in English. Please contact the appropriate service for your needs.

All official secondary school and college/university scholastic records submitted in support of your application should include English translations. English translations do not need to be official, but they should be literal (word-for-word, not interpretive) translations.

The University of Charleston recommends that students seek foreign educational credential evaluations from NACES® members. NACES® is an association of private foreign educational credential evaluation services committed to formulating and maintaining ethical standards in the field of foreign educational evaluation. A list of these evaluation services can be found at http://www.naces.org/members.htm.

Proof of adequate financial resources to support study in the United States is required to be provided an application for student visa. An official statement specifying these resources is required before an international student may gain entry into the United States for study. If the financial documentation is not in the applicant’s name, the account holder or sponsor must submit a Letter of Support stating their relation to the applicant and verifying they are financially responsible for the entirety of the applicant’s studies while enrolled at the Institution.

SPECIAL STUDENT / NON-DEGREE ADMISSION

Students who wish to pursue academic courses for purposes other than a University of Charleston degree can be admitted to the University as special students. Such students must be in good academic standing in all previously attended institutions and are subject to all academic rules and regulations of the University of Charleston. Special students should possess the requisite academic background for college-level work. A maximum of 15 credit hours may be accumulated as a special student unless the Office of Admissions makes an exception based on individual circumstances.

If a special student later applies to be a degree seeking student he or she must complete the application process for general or transfer admission, whichever is applicable. To obtain permission to enroll as a special student or a non-degree student, applicants contact the Student Solutions Office. One of the following statuses may be granted:

Audit Admission - Most courses at the University of Charleston can be audited (taken for no college credit). Enrollment requires submission of a “Non-Degree Student Application.” Enrollment is contingent upon class size and availability. Once a course is audited it may not be taken again for credit.
Transient Student Admission - Students applying with permission from their home college to transfer course credit are encouraged to enroll. A “Transient Student” Form must be completed along with a “Non-Degree Student Application.” Enrollment is contingent upon class size and availability.

High School / University Dual Enrollment - A student may choose to be enrolled in both high school and college simultaneously. After completion of the sophomore year in high school, a student is eligible to apply for special admission to the University to enroll in freshman-level coursework, provided the student is concurrently enrolled in high school. Students applying for concurrent admission must submit the following documentation for consideration by Admissions staff:

- Completed Non-Degree Student Application;
- Official copy of high school transcript showing evidence of a 3.0 grade point average (on a 4.0 scale);
- Written recommendation from his or her high school principal or guidance counselor.

The high school student must consult his or her high school guidance counselor to select the course(s) to be taken, which must supplement and not overlap the high school program.

A student may take a maximum of two courses per semester. The Office of Student Solutions must approve participation each semester. The University of Charleston has three semesters: fall, spring, and summer semesters of seven-week terms each semester, and a variable number of five-week summer semesters annually. Course work done at the University by a pre-college student may count toward the high school diploma if approved by the student’s high school. The course work will be credited toward a University of Charleston degree for those who subsequently enroll as regular students and may be evaluated for credit toward a degree at other accredited postsecondary institutions. Enrollment is contingent on class size and availability.

Regular Non-Degree

This category includes individuals who have already earned a bachelor’s degree or more but who wish to enhance job skills, seek additional academic certification or prepare for graduate school. This category also includes individuals who have not completed a degree but who wish personal or professional enrichment. Enrollment requires submission of a Non-Degree Student Application each semester. Enrollment is contingent upon class size and availability. Students will not be able to register for courses until the week prior to the beginning of classes.

UNDERGRADUATE ADMISSION AND ENROLLMENT PROCEDURES

Once the applicant has submitted the application and other necessary documentation to the University of Charleston, the Admissions Office professional staff carefully review the information and make one of four decisions:

- The student is granted general or contracted (Academic Success Academy) admission to the University of Charleston;
- The admission decision is delayed, and additional information is requested from the student, for example, final grades or essay;
- The student is granted conditional admission until the pending documentation is received and the student gains general admission status; or
- The student is denied admission.
If the decision is delayed, a decision will be made upon receipt of the additional information. Most admission decisions are made on a rolling basis and applicants are usually notified within 5 days of receipt of the completed credential file. Individuals seeking admission to Health Sciences and Education programs should refer to the specific program descriptions in this Catalog for information on special admission requirements. The Office of Admissions reserves the right to deny admission to the University for applicants whose scores fall below the stated minimums and/or for applicants who have documented behavioral or conduct incidence. UC reserves the right to withdraw an offer of admission when the admitted student’s behaviors do not meet the University’s expectations and requirements for students. See student handbook for conduct standards.

After an offer of admission to the University of Charleston is made, the student must remit a non-refundable $100 enrollment deposit. Students must pay the deposit upon acceptance of a financial aid package and prior to pre-registering for classes unless special arrangements have been made with the Executive Vice President and Chief Admissions and Marketing Officer. This deposit will be credited to the first semester’s tuition.

If the applicant requests campus housing, (freshmen and sophomores must live in the residence halls if their permanent address is outside a 60-mile radius), a $100 housing security deposit must also be remitted by the deposit deadline. This is refundable at the conclusion of campus residency providing the student has no unpaid University charges and no damage to rooms or common areas has occurred.

**Deferrals**

Applicants are permitted to defer their application one time wherein their non-refundable enrollment deposit may be carried over. Additional deferral requests will lead to a forfeiture of the enrollment deposit and will require the student to complete and submit a new application.

**GRADUATE ADMISSION**

Admission into the University of Charleston graduate programs is handled by each of the respective programs. Prospective students will work with admissions specialists who will help plan a path to an earned graduate degree. See specific programs for admissions details.

- Master of Business Administration
- Master of Science in Cybersecurity
- Master of Science in Strategic Leadership
- Master of Physician Assistant
- Doctor of Executive Leadership
- Doctor of Pharmacy

**TUITION & FEES**

Tuition and fees for undergraduate programs can be found on the [Undergraduate Tuition & Fees](#) page on the University website. Tuition and fees for graduate programs can be found on the [Graduate Tuition & Fees](#) page.
ROOM & AND BOARD COSTS – 2019-2020 ACADEMIC YEAR

Room and board costs for the 2019-2020 academic year vary by housing space and meal plan selected. Current pricing and options for both room and board can be found on the UC website at http://www.ucwv.edu/UC-Life/Residence-Life/Fees/

Housing rates include basic television cable service, basic telephone service, and wired and wireless Internet. Some housing choices, such as apartments, are available only on a limited basis.

Summer Session room charges will be based on contract terms at the time of reservation.

BOARD RATES

During the fall and spring semesters, three meals are offered daily except on Saturday and Sunday, when brunch and dinner are served. The cafeteria closes during vacations, including Thanksgiving, Winter Break, and Spring Break. Meals between semesters are not included in the Board Rates.

Students who reside in University of Charleston housing are required to participate in a meal plan unless they live in East Apartments, though they are available for purchase by other students as well. First year students are required to select either a 14 or 19 meals-per-week plan.

West Virginia sales tax on meals is charged to the student and collected by the University of Charleston on behalf of the state.

Other Costs

Application fee (undergraduate) ................................................................. $25
Application fee (graduate) ........................................................................ $50
Health Science Insurance .................................................................. $20 / semester
Accident/Sickness Insurance ............................................................ As announced
   (Contact the Office of Student Leadership and Engagement for current rates)
Identification Card replacement .......................................................... $10
Laboratory and breakage fees ............................................................. See class schedule

Other University fees may apply.

Students will be charged for any damage to University of Charleston property if the damage occurs due to misuse. Students must also pay for any test required by an academic program or the University of Charleston for graduation, and any test required by the West Virginia State Board of Education.
FINANCIAL AID

Michelle Marlowe, Director of Financial Aid

UC uses the Free Application for Federal Student Aid (FAFSA) as the financial aid application. Every student is encouraged to complete the FAFSA for determination of his or her eligibility for federal aid. The Office of Financial Aid, located in Riggleman Hall, coordinates all federal, state and institutional aid awarded to students, including academic scholarships, grants, loans, student employment, vocational rehabilitation, and external scholarships.

Students interested in being considered for federal financial aid must complete the FAFSA application every year. All application materials must be received by March 1 for full consideration for the following academic year. Any applications received after the March 1 deadline will be given consideration only if funds are available.

The most current information regarding financial aid may be found on the University’s website at: http://www.ucwv.edu/Admissions/Financial-Aid/

University of Charleston Scholarships

The University of Charleston offers several institutional scholarships to undergraduate students. Scholarships do not apply to graduate programs at the University of Charleston.

Charleston Campus Scholarships

Endowed Scholarships

Alumni and friends of Morris Harvey College/University of Charleston often choose to endow scholarships to show support for the university and its students. These scholarships carry varied stipulations and are usually awarded based on demonstrated financial need. These scholarship dollars are used to fund the UC Scholarship awarded to all Charleston campus undergraduates.

Presidential Scholarships

Requirements:
- High School GPA of 4.0 or higher
- ACT 25 or SAT 1150
- Must live on campus
- Must interview with the President on Scholarship Competition Days

Award Information:
- Full Tuition Covered

Welch Innovation Scholarship

Requirements:
- High School GPA of 3.0 and ACT score of 23 or SAT score of 1120 or higher
- Cannot combine this scholarship with any UC academic or athletic scholarship
- Interview and complete at a scholarship competition day
- Previous community service and innovation experience required

Contact David Ramsburg at davidransburg@ucwv.edu for dates and times of competition

Award Information:
- $20,000
Merit Scholarship
Requirements:
- ACT score of 22 or higher or SAT score of 1110
  GPA of 3.0 or higher
- Selection based upon competition during Scholarship Days

Award Information:
- $500-4,000 per year

Student Ambassador Scholarships
Requirements:
- GPA of 3.0 or higher
  Selection based upon competition during Scholarship Days

Award Information:
- $500-3,500 per year

Athletic & Cheerleading Scholarships
Requirements:
  Must be an outstanding NCAA Division II level athlete and meet UC Admissions requirements
  Offered by athletic coaches
  Can only be combined with academic scholarships awarded at acceptance and no other award

Award Information:
- Various

Music Scholarships
Requirements:
- Audition for choir or pep band required

Award Information:
- Various

West Virginia National Guard Scholarship Military Discounts
Requirements:
  Soldier to have completed basic training and AIT by enrollment date
  Applies to undergraduate work
  Scholarships for WV Army and Air Guard
  Ask about discounts for prior or current military duty

Award Information:
  $16,500

Other Scholarships
  Legacy
  Sibling
  Program based scholarships

Award Information:
  Various
Combination of Scholarships and Residency Status

A student may be awarded the UC Scholarship plus one additional talent or merit scholarship. Scholarship award amounts and requirements are subject to change at the discretion of the University of Charleston. The University retains the right to make final decisions about combinations of awards. A student who receives financial aid as an on-campus, resident student and who subsequently decides to move off campus will receive a reduction up to twenty-five (25%) in his/her institutional scholarships. This reduction applies to all forms of University scholarship and grant assistance including academic, athletic, and need-based awards. Students who are planning to move off campus should contact the Office of Financial Aid to determine the exact amount of aid that will be reduced.

Beckley Campus and Online Students

Students that attend the Beckley campus or online pay a discounted per credit hour rate and are not eligible for Institutional scholarships.

Beckley Area Foundation- The University of Charleston receives limited funds from the Beckley Area Foundation which are awarded to qualifying Beckley campus students. The amounts and criteria are determined on an annual basis.

Federal and State Grants / Scholarships

Federal Pell Grants

Federal Pell Grants are available to students who apply and meet the eligibility criteria determined by the U.S. Department of Education. The federal government sets the range for these awards based on the student’s financial need.

Federal Supplemental Education Opportunity Grants

Federally funded grants for students with exceptional financial need. The grant is based on the student’s financial need and students must qualify for Pell Grant to be eligible for SEOG funds. Awards are given to the neediest students first.

West Virginia Higher Education Grants

State need-based grant funds that are available to West Virginia residents. Grants are based on financial need and academic performance. Applicants must maintain a minimum cumulative grade point average of at least 2.0 (“C”) and earn at least twenty-four (24) credits during an academic year, or twelve (12) credits if only enrolled for one semester. Summer term is not considered a make-up period for eligibility. Students are required to file the FAFSA each year by April 15th for consideration. Awards are determined by the WV Higher Education Policy Commission and eligibility is reviewed by the Office of Financial Aid annually.

Promise Scholarships

The Promise Scholarship is awarded to West Virginia high school seniors with a cumulative high school grade point average of at least 3.0 and an American College Test (ACT) composite score of at least 22 (20 in each category or higher) or a SAT total of at least 1100 (530 in reading/ 520 in math or higher). Students must earn at least 30 credit hours and maintain a 2.75 cumulative GPA the first year and 3.0 cumulative GPA.
subsequent years. Students may use the summer term to improve GPA and hours needed to complete the requirements for continued eligibility. Awards are determined by the WV Higher Education Policy Commission and eligibility is reviewed by the Office of Financial Aid annually.

Other WV Grants and Scholarships

Visit the College Foundation of West Virginia website https://cfwv.com for more information about other grants and scholarships available to WV residents.

Pennsylvania / Rhode Island / Vermont / Delaware Higher Education Grants

State grants that are available to students in the designated states. The grant is based on the student’s financial need and determined by the individual state grant agency. Please check with your state on these grants.

Employment

Federal College Work Study

Federal College Work Study is awarded to students as part of the financial aid package solely based on financial need. A Federal College Work Study Application is required for consideration in the program. The Office of Financial Aid staff assigns students to positions on the Charleston and Beckley campuses as well with non-profit agencies off-campus. Students employed within this program may earn no more than the amount of the College Work Study award.

University of Charleston Resident Advisor Awards

Resident Advisor Awards are available to residential upperclassmen. Resident Advisors have responsibilities for providing campus-based programming, as well as peer counseling and tutorial services. Students apply for the RA Awards through the Office of Student Life.

Federal Loans

Federal Direct Loans

Federal Stafford Loans have a fixed interest rate, which is set by the federal government. Undergraduates must be enrolled for at least six credits per semester in a degree program. Pharmacy students are required to be enrolled for at least six hours. Other on-line graduate students must be enrolled for three hours to qualify for full-time loan amounts.

Undergraduate students may qualify for subsidized and unsubsidized loans. Graduate students qualify for unsubsidized loans and the Graduate PLUS Loan program.

Nursing Student Loans

Nursing Student Loans provide funding for students enrolled in the Baccalaureate BSN Nursing program. No interest is charged while the student is in school. Five percent simple interest is charged after completion of a nine-month grace period. The student must demonstrate financial need and be enrolled in nursing classes to be eligible for this program.
Federal Parent PLUS Loans

The Parent Loan for Undergraduate Students (PLUS) is a federal loan program. The interest rate is currently fixed, and repayment may begin within 60 days after the loan is disbursed or can be deferred for up to four years. Parents may borrow the total cost of education per year less other financial aid awarded.

Graduate PLUS Loans

The Grad PLUS Loan is a federal loan program for graduate students. The interest rate is currently fixed, and payments are deferred if the student is enrolled at least half-time. Students may borrow the total cost of attendance less other financial aid awarded.

Additional Outside Financial Aid Programs

Veterans

VA Pending Payment Statement of Assurance

The University of Charleston certifies that the institution has no policy in writing or in practice that would lead to any punitive measures for any student using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. The University of Charleston does not:

- Prevent their enrollment;
- Assess a late penalty fee;
- Require they secure alternative or additional funding; or
- Deny their access to any resources (e.g. classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

We may require such students to:

- Produce the VA’s Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify enrollment as described in other institutional policies (students are directed to the University’s VA School Certifying Official for all requirements).

Veterans’ Benefits are administered through the Veterans Coordinator for full-time and part-time students. Students must carry a course load of 12 credits to be eligible for full-time undergraduate student veterans’ benefits. Information on benefits and payment is available from the Veterans’ Administration Regional Office in St. Louis, MO. Telephone: 1-888-442-4551 or at http://www.gibill.va.gov.

Reserve Officers Training Corps (ROTC)

Two, three, and four-year scholarships are available for those students who apply and meet the ROTC eligibility requirements. Each award covers tuition, other academic expenses, and a subsistence allowance. These scholarships are offered in cooperation with the ROTC Detachment located at West Virginia State University.
Satisfactory Academic Progress for Financial Aid

Introduction

To receive federal and state need based funds administered by the Office of Financial Aid at the University of Charleston, students must be making measurable academic progress toward completion of an eligible degree. Federal regulations require evaluation of both qualitative and quantitative academic progress as well as completion of degree objective within 150% of normal time frame.

Satisfactory Academic Progress (SAP) standards are the same for all categories of students, including those students registered with the University’s Academic Success Center. Students registered with the Academic Success Center should take advantage of suggested accommodations to meet the SAP standards. Failure to register with Academic Success Center will not be considered an extenuating circumstance. All periods of enrollment will be included in the measurement of satisfactory academic progress. Terms in which the student enrolled but did not receive financial aid are included in the measurement.

Guidelines for Academic Progress

The academic year at the University of Charleston consists of fall, spring, and summer enrollment periods. Fall term begins the academic year and the summer term concludes it. The measurement of academic progress is made at the end of each enrollment period and the status is effective with the next enrollment period.

Students applying at the University of Charleston for the first time (including transfers) are considered initially to be meeting SAP. The measurement of academic progress will be determined when all academic transcripts are received by the Office of Financial Aid. All transcripts are to be reviewed prior to any disbursement of federal/state funds. Students who have been academically suspended from the University and who are readmitted are not eligible for financial aid unless meeting the SAP policy. Students who are readmitted may follow the appeal policy if consideration for financial aid is desired. Students who receive academic forgiveness for previous course work will continue to have all attempted credit hours and all earned grades considered as part of the evaluation of academic progress for financial aid.

GPA

Students must meet a qualitative standard of academic progress measured through cumulative grade point average. Students must have an overall 2.0 GPA to graduate from the University.

GPA Required for Undergraduate-level Students:

- Bachelor’s Degree Programs 2.00 GPA
- Associate Degree Programs 2.00 GPA

GPA Required for Graduate-level Students:

- School of Business and Leadership 3.00 GPA
- School of Pharmacy 2.30 GPA
Quantitative Standards

Students must meet a quantitative standard of academic progress measured by a percentage completion rate. Students must successfully complete 67% of all attempted credit hours (this allows students to graduate within 150% of the normal timeframe). The calculation is made as follows: earned credit hours/attempted credit hours = completion rate (result will be rounded to the closest whole number). Courses in which a student receives a grade of “W,” “I,” “F,” “FW,” “FX,” “IF,” “NF,” “NR”, and courses taken under the University’s repeat regulations are included in attempted credit hours but are not included in earned credit hours. Credit hours transferred are included in this quantitative measure.

Maximum Time Frame for Degree Completion

Students must obtain degree objective within 150% of the normal time frame for degree completion. For example, in a baccalaureate program requiring 120 credit hours, students must obtain degrees within 180 attempted credit hours (120 x 1.50 = 180). For associate programs of 60 credit hours, students must complete within 90 attempted hours. Graduate students in master’s degree programs requiring 68 hours must complete within 102 attempted credit hours. Doctoral students have a maximum of 219 attempted credit hours. This maximum time frame is based upon student classification in the University’s academic records.

Students who are pursuing a course of study with greater credit hour requirements need to notify the Office of Financial Aid to have a review done on a case-by-case basis. This request for review will not be considered an appeal.

Students who are pursuing second degrees may be considered for financial aid (this is not the same situation as dual degrees). A second undergraduate degree must be obtained within 60 attempted credit hours. A second associate degree must be obtained within 30 attempted credit hours. A second master’s degree must be obtained within 36 credit hours. The attempted hour limitations for a second degree, i.e., 60 attempted credit hours, is measured from the point at which the student earned the initial degree.

Financial aid eligibility is limited to no more the two associate degrees, two undergraduate degrees, two master’s degrees, and one Doctor. Students who wish to pursue degrees beyond these may do so without federal financial assistance.

Warning Period

A student who fails to meet SAP (excluding maximum time frame) at the end of the enrollment period will automatically be placed on “warning”, not to exceed one enrollment period. During the “warning” enrollment period, the student may receive federal financial aid despite the determination that the student is not meeting SAP standards. The student must meet SAP standards at the end of the warning period or will be suspended from further financial aid until such time the student meets SAP standards (student must pay for any additional course enrollment after the warning period through personal or private funds) or the student must appeal, and the appeal is granted.

Probation Period

“Probation” is the status assigned to a student who fails to meet SAP standards and who has appealed and has had eligibility for aid reinstated. A student on financial aid “probation” may receive financial aid for one enrollment period. At that point, the student must meet SAP standards or meet the requirements of the individual academic plan developed in conjunction with an academic advisor.
Appeal Process

There may be extenuating circumstances encountered by a student which impact his/her ability to be successful during an enrollment period. These circumstances include personal injury or illness which occurs during an enrollment period; death of an immediate family member or legal guardian during an enrollment period; or other documented circumstances that were unexpected in nature and beyond control of the student. In these cases, cumulative grade point average or completion rate may decline resulting in the student not meeting the minimum qualitative and quantitative standards previously described.

If this occurs and the student wishes to appeal the suspension from financial aid eligibility, a Satisfactory Academic Progress Appeal Form must be submitted to the Office of Financial Aid no later than the date listed on the student’s denial letter. The Academic Progress Appeal Form will be available in the Office of Financial Aid as well as the MYUC student portal. If the appeal is granted and the student meets the SAP policy within one enrollment term, the advisor/official form needs to state the number of credit hours and semester GPA that a student must obtain to be compliant at the next assessment period. If the student will require more than one enrollment period to become compliant with SAP standards, academic plan must be developed which specifies the course work and term GPA necessary to become compliant within three enrollment periods. A review will be done at the end of each enrollment period to ensure that the student is meeting the terms of the academic plan. If the student is not meeting those terms, further eligibility for aid is suspended immediately. An academic plan should not exceed three additional terms of enrollment.

In some cases, a student may not complete the degree objective within 150% of the normal time frame; an example is a change in major. If this occurs and the student wishes to appeal the suspension from financial aid eligibility, a Satisfactory Academic Progress Appeal Form must be submitted no later than the deadline listed on the denial letter sent from the Office of Financial Aid. This appeal must include an academic plan which specifically identifies remaining required course work and the projected graduation date. Extensions of the maximum timeframe will not exceed three additional enrollment periods. Extensions of the time frame will not be granted to students who have less than an overall 2.0 grade point average or less than 67% completion rate or who received academic forgiveness under the University Academic Forgiveness Policy.

An appeal form must contain a copy of the University academic transcript (unofficial copy is acceptable), appropriate documentation regarding the extenuating circumstance, and a signed University academic advisor/official form. Incomplete appeal forms will not be reviewed.

The appeal will be reviewed by the Satisfactory Academic Progress Appeal Committee.

Additional Special Requirements

Report of Graduation Rates

Information about the graduation rates of a variety of student groups, and other information in compliance with the Student-Right-to-Know-Act, is available in the Student Solutions Center and on the UC website’s Student Right-to-Know page.
Withdrawal from the University and Financial Aid – Title IV Refund Policy

When a student withdraws from school before completing an enrollment period, the University must determine whether any of the student’s financial aid must be repaid. Students earn Title IV federal student financial aid based on the length of time enrolled. If more than 60% of the enrollment period is completed, all Title IV funds are considered “earned,” and no funds are to be repaid.

If charges over and above the amount of retainable Title IV financial aid are not covered by other funds, the University will bill the student to make up for the difference. Students owing a repayment to any federally sponsored student aid program cannot receive any federally supported student financial assistance for future enrollment periods until repayment arrangements have been made with either the University of Charleston or the U.S. Department of Education.

Student Lending Code of Conduct

The University of Charleston is committed to providing students and their families with the best information and processing alternatives available regarding student borrowing. In support of this and an effort to rule out any perceived or actual conflict of interest between University officers, employees, or agents and education loan lenders, the University has adopted the following:

The University does not participate in any revenue-sharing arrangements with any lender.

The University does not permit any officer, employee or agent of the school who is employed in the Office of Financial Aid or is otherwise involved in the administration of education loans to accept any gifts of greater than nominal value from any lender, guarantor or servicer.

The University does not permit any officer, employee or agent of the school who is employed in the Office of Financial Aid or is otherwise involved in the administration of educational loans to accept any fee, payment or other financial benefit (including a stock purchase option) from a lender of affiliate of a lender as compensation for any type of consulting arrangement or contract to provide services to a lender or on behalf of a lender relating to education loans.

The University does not permit any officer, employee or agent of the school who is employed in the Office of Financial Aid or is otherwise involved in the administration of education loans to accept anything of value from a lender, guarantor, or group of lenders and/or guarantors. The University does allow for the reasonable reimbursement of expenses associated with participation in such boards, commissions, or groups by lenders, guarantors, or groups of lenders or guarantors.

The University does not assign a lender to any first-time borrower through financial aid packaging or any other means.

The University recognizes that a borrower has the right to choose any lender from which to borrow to finance his/her education. The University will not refuse to certify or otherwise deny or delay certification of a loan based on the borrower’s selection of a lender and/or guarantor.

The University will not request or accept any offer of funds to be used for private education loans to students from any lender in exchange for providing the lender with a specified number or volume of Title IV loans, or a preferred lender arrangement for Title IV loans.

The University will not request or accept any assistance with call center or Office of Financial Aid staffing.
Identity Theft Prevention Policy

The risk to the University of Charleston’s faculty, staff, students, and other applicable constituents from data loss and identity theft is of significant concern to the University. The University of Charleston adopts this Identity Theft Prevention Policy and enacts this program to detect, prevent, and mitigate identity theft, and to help protect its faculty, staff, students, and other applicable constituents from damages related to the loss or misuse of identifying information due to identity theft.

Under this policy, the program will:

- Identify patterns, practices, or specific activities (“Red Flags”) that could indicate the existence of identity theft with regards to new or existing covered accounts;
- Detect red flags that are incorporated in the program;
- Respond appropriately to any red flags that are detected under this program to prevent and mitigate identity theft;
- Ensure periodic updating of the program, including reviewing the accounts that are covered and the identified red flags that are part of this program; and
- Promote compliance with state and federal laws and regulations regarding identity theft protection.

The program shall, as appropriate, incorporate existing anti-fraud programs and information security programs that control reasonably foreseeable risks.
**POLICY ON SMOKING AND TOBACCO USE**

The University maintains a smoke and tobacco-free environment in all of its buildings/facilities on campus and in all of its vehicles. No smoking or other use of tobacco products (including, but not limited to, pipes, cigars, snuff, e-cigarettes, vaporizers, or chewing tobacco) is permitted in any part of any building/facility or in vehicles owned, leased, or rented by the University.

Employees and students may smoke on campus only in the designated smoking areas. These designated smoking areas are located between the Geary Student Union/Clay Tower Building and between Cox Hall/Middle Hall on the Charleston campus. The designated smoking areas on the Beckley campus are located at the right side of the building of Carter Hall, the right rear corner of the Health Science building, the left rear corner of the John W. Eye Conference Center, the left side of the rear lot by the volleyball court of Hogan Hall, the bottom left corner by the loading dock of the Learning Resource Center, the left rear corner outside of Wiseman Hall, the right rear corner by the dumpster of University Hall, and the left rear corner of the Bookstore building. No one may smoke along any pathway or walkway leading to or from the designated smoking area, the campus lawn or the parking areas. Additionally, employees and students may smoke in their personal vehicles, but the smoke and tobacco products must be completely contained within the vehicle. It is not acceptable that both smoking or non-smoking employees and students are subjected to smoke that they must walk through to reach their vehicle or any other destination on campus.

While the University makes the designated areas available to smokers, it in no way has any legal responsibility to do so. Employees and students who choose to use these smoking areas do so at their own risk. No special release time will be given to any employee or student who smokes. Finally, smokers and users of tobacco products must dispose of the remains in the proper containers. This helps to keep a neat and clean environment for all employees, students and visitors.

**Enforcement**

This policy applies to all employees, vendors, visitors, and students. Employees, students, or visitors violating this policy shall be subject to discipline in accordance with the progressive disciplinary policy in the Employee Handbook. Students violating this policy shall be subject to discipline in accordance with the disciplinary and social justice policies contained in the *UC Student Handbook*. Vendors or visitors violating the policy shall be notified of the policy and asked politely to refrain from smoking outside of the designated smoking areas.

**Smoking Cessation Opportunities**

The University encourages all smoking employees and students to quit smoking. The University’s Pharmacy School can provide information to anyone who would like to quit smoking.

**Questions**

Any questions regarding the smoke-free workplace policy should be directed to the Administration & Finance Office (304) 357-4736.
Academic Policies

Ms. Carol Spradling, Registrar

Placement

ACT and SAT subscores will be used for placement in Math and selected science courses (e.g. Chemistry as set by individual programs). Needs of individual students will be assessed by the Director of the Academic Success Center.

Students must have a 21 ACT or 540 SAT math score, or must have completed MATH 120 before they will be allowed to enroll in MATH 121. Students who need MATH 121 and who do not have ACT/SAT scores should contact the Department of Natural Science & Mathematics at 304-357-4744 for advisement.

Students in majors requiring MATH 116 do not need a minimum ACT/SAT score.

Applicants with a GPA below 2.6 who demonstrate the ability to be successful in a university environment (see application requirements under the Admissions section of this document) may be offered admission into the Academic Success Academy. As part of this program, students will participate in a curriculum specifically designed to develop foundational academic skills for success in college. This includes:

Meetings Academic Success Academy Advisors during SOAR/Orientation and periodically during the term to assess academic success and connect with resources. Placement in Academic Success Academy courses (based on ACT/SAT subscores) COMM 101 (Standalone) Foundational College Writing ASC 089- Academic Reading ASC 091- Personal Academic Success

Students in the Academic Success Academy must achieve a minimum of a 2.0 GPA and passing grades in all Academic Success Academy coursework to exit from the program. Students who cannot successfully complete the requirements/curriculum in three semesters may be considered for academic probation or dismissal.

Students whose native language is not English, regardless of having met or exceeded the minimum TOEFL requirement for admission, must complete the CaMLA English Placement Test (EPT) and a writing sample to determine if they will enroll in the ESL bridge program. Please see scores and corresponding course placement below:

60-69 Advanced Level ENSL courses required – ENSL 096
70+ ENSL requirement waived

For more information on the ESL program see the English as a Second Language Progression Policy.
MAJORS

Academic majors consist of a variety of learning experiences, with at least 40 credits, 15 of which must be from upper-division (300-400 level) courses or learning experiences that meet program outcomes. Students must complete at least six upper-division credits in that major at the University of Charleston, with a 2.0 grade point average. An overall grade point average of 2.0 is required in all work attempted in the major. Some programs may have a higher requirement.

Students must declare a major and be assigned or choose a major advisor before completing his or her 60th academic credit.

Any change in major, including a choice of major by an undecided student, requires the student to file a new “Declaration of Change of Major” form with the Student Solutions Center, to assure that proper credit toward a degree is tracked and awarded. These forms are available to enrolled students in the MyUC portal under “Student Resources.” Access to the portal requires an official UC network login.

INDIVIDUALIZED MAJORS

GENERAL STUDIES AND MULTIDISCIPLINARY STUDIES

Individualized Major – General Studies Degree (BS or BA)

The General Studies Major is designed for students who have either completed an extensive number of college-level courses at other institutions that do not fit logically into existing University of Charleston academic majors or students who want to combine content from existing University of Charleston majors to meet personal educational goals.

Student must make an appointment with the General Studies Program Director to discuss his or her educational goal(s) and determine the outcomes of the individualized program (contact the Student Solutions center for the Program Director contact information). The General Studies Program Director and student, in consultation, may select an appropriate Advising Team, including a primary advisor and one or two other faculty. This Advising Team will help the student develop a coherent program of study designed to meet the agreed upon outcomes, and a plan for demonstrating Liberal Learning Outcomes. The importance of the latter will grow in proportion to the number of credits transferred from other institutions where Liberal Learning Outcomes are not integrated in or assessed through regular coursework.

Students pursuing this degree option must have, or must complete, a minimum of 120 credit hours, maintain a 2.0 GPA, declare an area of concentration based on the courses the student has taken, complete all the Liberal Learning Outcomes, amass a total of 30 upper-division credit hours, and complete the General Studies Capstone course. The area of concentration chosen will determine whether the Bachelor of Arts (BA) or Bachelor of Science (BS) degree in General Studies is awarded.
Individualized Major – Multidisciplinary Studies Degree (BA or BS)

Often, students possess a broad range of interests that do not fit into a “traditional” major. The Multidisciplinary Studies (MDS) degree is designed so that the graduate can synthesize and apply skills and knowledge from multiple disciplines to address complex issues encountered in society, career and personal life.

The MDS degree program consists of a course of study comprised of three academic minors from various disciplines, plus an MDS Capstone course. A variety of predetermined, recommended combinations of specific minors are available to the student. However, the student has the option to make his or her own choice of minors with the guidance of the MDS program advisor.

**Students pursuing this degree option must:**

- Complete a minimum of 120 credit hours
- Amass a total of 30 upper-division credit hours, 15 of which must be earned during the senior year;
- Keep a cumulative University of Charleston grade point average of 2.0
- Complete all UC Liberal Learning Outcomes, AND
- Successfully complete the MDS Capstone course.

The specific minors chosen will determine whether the Bachelor of Arts (BA) or Bachelor of Science (BS) degree in Multidisciplinary Studies is awarded.

**MINORS**

Students may elect to complete coursework and demonstrate specified outcomes in a minor field of study. A minor is a sequence of courses within an integrated curriculum that is outside of the discipline or area of study of a student’s primary major. Minors require a minimum of 18 credits in the discipline, at least nine (9) of which must be earned in upper-division courses or experiences (i.e. courses numbered 300 or higher). At least six (6) of these credits must be completed at the University of Charleston. Up to six (6) credit hours may be counted towards both the major and a minor. No limit has been placed on the number of minors a student may acquire.

Minors are offered in many disciplines or programs that offer a major, as well as in selected disciplines for which a major is not available. Requirements are described in the appropriate academic department or program course listings. Accumulation of credits in other disciplines or programs will not constitute completion of a minor.

**CONCENTRATIONS**

A concentration is a sequence of courses within an integrated curriculum that is within the discipline or area of study of a student’s primary major. At least 9 credits must be outside the core requirements of the major and the concentration must contain at least 15 credits.

**DOUBLE MAJORS**

A student may declare a second major. Students need to satisfy LLO requirements only once, regardless of number of majors. At least 21 credits in the second major must be outside the core requirements of the first major and unique to the second major. If the two majors are in two different degree classifications (AS, BS and BA) the student will receive two diplomas. If the majors are in the same degree classifications (AS, BS or BA) only one diploma will be received.
Students must meet the graduation requirements as published in the Catalog in effect when they first enroll in order to graduate, unless they have not maintained continuous enrollment (summers exempted). Students who interrupt their studies may be expected to meet degree requirements of the Catalog in effect at the time of their return. Transfer student requirements are governed by the Catalog in effect at the time of initial enrollment. Subsequent changes in degree requirements, as published in the Catalog or amended by the faculty, may be substituted at the option of the faculty in discussion with the student.

Students are expected to complete all requirements for the bachelor’s degree within 10 years of original enrollment at the University and within five years for the associate degree. Within the University certain programs have specific guidelines as to the courses accepted for credit or the time in which courses can be applied for credit. Records of students not completing degree requirements within these times will be subject to review to determine graduation requirements.

Departmental requirements for graduation are those in effect at the time the student declares the major except in cases in which an external accrediting agency requires otherwise. Changes in departmental requirements after declaration will apply, provided they do not require a student to enroll in more than a normal complement of credit hours in any term or do not prolong the time required to complete degree requirements. Department chairs and program coordinators have authority to waive or provide substitute course work for departmental requirements.

The student is responsible for completing all requirements of his or her major program, including mastery of exit-level outcomes at designated standards, and for meeting all University requirements, including meeting all Liberal Learning Outcomes, before they will be allowed to graduate. Students should confer with major advisors and refer to the Academic Catalog in place when they originally entered the program, to assure satisfactory progress toward graduation. Those catalogs may be available online.

Graduate and undergraduate students enrolled in a degree or certificate programs must complete at least 25% of the total credits required for the program in residence at the University of Charleston. This is the minimum institutional residency requirement for all programs. However, graduate programs may elect to require a greater percentage of program credits to be completed in residence. Students seeking to enroll in a graduate degree or certificate program should consult with their academic advisor for details about the residency requirement for their program.
**ASSOCIATE DEGREE**

Minimum requirements include:

- Decisions on the acceptance of transfer equivalencies within the major are made by the program faculty;
- 60 earned academic credits;
- Fulfillment of the Foundational LLOs;
- 15 resident credits;
- Fulfillment of all requirements and outcomes of the academic program;
- Cumulative University of Charleston grade point average of 2.0; and
- Demonstration of achievement of exit-level standard on discipline and program outcomes.

**BACHELOR’S DEGREE**

Minimum requirements include:

- 120 earned academic credits;
- 30 upper-division credits – six of which must be University of Charleston credits;
- 30 University of Charleston credits, 15 of which must be earned during the senior year;
- Fulfillment of all requirements and outcomes of the academic program;
- Demonstration of achievement of exit level standard on Liberal Learning Outcomes;
- Cumulative University of Charleston grade point average of 2.0; and
- Demonstration of achievement of exit-level standard on discipline and program outcomes.

**INDIVIDUALIZED MAJOR – GENERAL STUDIES DEGREE (BA OR BS)**

Minimum requirements include:

- 120 earned academic credits;
- 30 upper-division credits – six of which must be University of Charleston credits;
- 30 University of Charleston credits, 15 of which must be earned during the senior year;
- 18 academic credits earned in a single academic discipline;
- Demonstration of achievement of exit level standard on Liberal Learning Outcomes;
- Cumulative University of Charleston grade point average of 2.0; and
- Demonstration of achievement of exit-level standard of agreed upon program outcomes.

**INDIVIDUALIZED MAJOR – MULTIDISCIPLINARY STUDIES DEGREE (BA OR BS)**

- Complete a minimum of 120 credit hours;
- Amass a total of 30 upper-division credit hours, 15 of which must be earned during the senior year;
- Cumulative University of Charleston grade point average of 2.0;
• Declare an area of concentration based on the courses completed;
• Demonstration of achievement of exit-level standard for at least one academic minor;
• Demonstration of achievement of exit level standard on Liberal Learning Outcomes; and
• Successfully complete the General Studies Capstone course.

SECOND DEGREE REQUIREMENTS

Students who have obtained a bachelor’s degree from an accredited institution other than the University of Charleston may receive a second degree from the University of Charleston. Requirements include:

• The second degree field of study must be different from one completed as part of the student’s first bachelor’s degree.
• Take at least 30 credits at the University of Charleston. Students who earn their first bachelor’s degree from the University of Charleston and wish to return for a second degree must also complete an additional 30 credit hours.

Students completing a second bachelor’s degree will not need to show additional competency in foundational or mid-level LLOs. Competency at the Advanced level for all LLOs is required; this is achieved through successful completion of the Senior Capstone UNIV course.

ACADEMIC CREDIT – CREDIT FOR PRIOR LEARNING

The University of Charleston’s outcomes-based philosophy encourages evaluation of prior learning for college credit. Students may be able to meet certain degree requirements by demonstrating achievement of University or program competencies. Evaluation of prior learning also assures that students begin the college experience at the most appropriate level, subject to the limitations detailed below.

The Registrar, major advisors and mentors will discuss placement, course credit and options for demonstrating outcomes achievement through prior learning when schedules are arranged during orientation and advising. Prior learning may be demonstrated in the following ways:

• Advanced Placement (AP) Examinations;
• College Level Examination Program (CLEP);
• Credit by examination;
• Self-Acquired Competency (SAC);
• American Council on education (ACE);
• International Baccalaureate Degree;
• Joint Services Transcript (JST);
• Community College of the Air Force (CCAF)
• European Patterned Education; and
• Educational Experiences in the Armed Services.
**Advanced Placement (AP):** Credit may be given to students who have scores of at least three (3) on the appropriate College Entrance Examination Board Advanced Placement Examinations. Some scores must be a four (4) or higher to receive credit. The University accepts the following AP tests:

<table>
<thead>
<tr>
<th>AP Test Name</th>
<th>Credits</th>
<th>Equivalent UC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>3</td>
<td>POLS 101</td>
</tr>
<tr>
<td>American Literature</td>
<td>3</td>
<td>ENGL 223</td>
</tr>
<tr>
<td>Art – History of Art</td>
<td>3</td>
<td>ART 203</td>
</tr>
<tr>
<td>Art – Studio: Drawing</td>
<td>3</td>
<td>ART 100</td>
</tr>
<tr>
<td>Biology (Score of 3 or 4)</td>
<td>4</td>
<td>NSCI 117</td>
</tr>
<tr>
<td>Biology (Score of 5)</td>
<td>4</td>
<td>BIOL 130, BIOL 130L</td>
</tr>
<tr>
<td>Calculus – AB (Score 4 or 5)</td>
<td>4</td>
<td>MATH 201</td>
</tr>
<tr>
<td>Calculus – BC (Score 4 or 5)</td>
<td>4</td>
<td>MATH 202</td>
</tr>
<tr>
<td>Chemistry (Score of 4 or 5)</td>
<td>8</td>
<td>CHEM 101, 102, 101L 102L</td>
</tr>
<tr>
<td>Economics – Microeconomics</td>
<td>3</td>
<td>BUSI 201</td>
</tr>
<tr>
<td>Economics – Macroeconomics</td>
<td>3</td>
<td>BUSI 202</td>
</tr>
<tr>
<td>English – Language</td>
<td>3</td>
<td>COMM 101</td>
</tr>
<tr>
<td>French</td>
<td>6</td>
<td>FREN 101, FREN 102</td>
</tr>
<tr>
<td>German</td>
<td>6</td>
<td>GERM 101, GERM 102</td>
</tr>
<tr>
<td>Government &amp; Politics</td>
<td>6</td>
<td>POLS 101, POLS 102</td>
</tr>
<tr>
<td>Introduction to Management</td>
<td>3</td>
<td>MGMT 311</td>
</tr>
<tr>
<td>Music – Theory</td>
<td>3</td>
<td>MUSC 101</td>
</tr>
<tr>
<td>Music – Listening &amp; Literature</td>
<td>3</td>
<td>MUSC 212</td>
</tr>
<tr>
<td>Physics 1 (Score of 4 or 5)</td>
<td>4</td>
<td>PHSC 201, PHSC 201L</td>
</tr>
<tr>
<td>Physics 2 (Score of 4 or 5)</td>
<td>4</td>
<td>PHSC 202, PHSC 202L</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>3</td>
<td>MRKT 321</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PSYC 101</td>
</tr>
<tr>
<td>Spanish</td>
<td>6</td>
<td>SPAN 101, SPAN 102</td>
</tr>
<tr>
<td>US History</td>
<td>6</td>
<td>HIST 251, HIST 252</td>
</tr>
<tr>
<td>World History</td>
<td>3</td>
<td>HIST 212</td>
</tr>
</tbody>
</table>

**College Level Examination Program (CLEP):** Students may be exempted from one or more introductory courses, with an award of credit for such courses, based on good CLEP performance. The Student Solutions Center and the Academic Success Center can provide information about which CLEP tests are accepted for credit. CLEP testing facilities are available at the University of Charleston-Beckley, the University of Charleston-Charleston and the University of Charleston-Martinsburg.

**Credit by Examination:** Academic departments or programs may develop examinations to allow students to demonstrate mastery of course content. The Program Director, Department Chair, Provost, and the Registrar must approve the award of credit.
The Program Director shall approve content of the examination prior to administration. Completed examinations are filed in the Office of the Registrar. Credit will be awarded only to those receiving a grade of “C” or above on the examination. A grade of “P” or “F” is recorded on the student’s transcript. Students who fail to establish credit for a course by examination will not be allowed to take a second examination for credit for the same course. Contact the Director of the program of interest to inquire about this option.

**Self-Acquired Competency (SAC):** Self-Acquired Competency is used to earn academic credit for learning that occurred outside the classroom. Regularly enrolled students or applicants for admission may request SAC credit to be applied to specific courses, program requirements, or Liberal Learning Outcome(s). He or she submits a written request and a portfolio documenting mastery of the content area(s) and outcome(s) to program faculty or the appropriate faculty Liberal Learning Roundtable. The portfolio is evaluated by a faculty member (full-time or part-time) who has expertise in the field or fields being assessed, or by the LLO Roundtable with responsibility for the Liberal Learning area being addressed. **The University of Charleston does not award academic credit in areas in which it does not have faculty expertise.**

SAC credit is used only for prior learning. Independent Learning Projects (ILPs) are used to formulate out-of-classroom alternatives for current learning. SAC requests that involve approval by any Liberal Learning Outcome Roundtable may be submitted to the Faculty Center at the end of the semester preceding the semester in which the student anticipates graduation. For example, May graduates should have requests submitted by December 10, and December graduates should submit requests by May 5.

Credit for Self-Acquired Competency may also be awarded if the educational experience being evaluated is listed in **The National Guide For College Credit for Workforce Training.** Published by the American Council on Education (ACE), this guide lists credit recommendations for educational programs and courses sponsored by non-collegiate organizations that offer courses to employees or members. These included business and industry, unions, professional and voluntary organizations, and government agencies. In most instances, the University of Charleston will accept such recommendations and award appropriate credit.

**International Baccalaureate Degree:** Students achieving 5, 6, or 7 in an individual higher level examination may receive credit for an equivalent course at the University of Charleston. No credit will be awarded for subsidiary (lower) level subjects. Official transcripts must be issued by the International Baccalaureate North American Office.

**European-Patterned Education:** Up to one year of credit may be awarded upon completion of the courses and the national examination for advanced high school work, the equivalent of the thirteenth year of school. If you are completing such curricula, you may be eligible to receive variable amounts of advanced standing credit (0 – 32) depending on your examination results, course syllabi and subjects taken. We require an officially certified copy of your externally issued exam results showing scores for each exam subject. We also require an official English translation. Advanced standing credit is most often awarded for the following programs:

- British GCE Advanced-level or AS-level examinations
- Canadian (Quebec) two-year College d’enseignement General et Professionnel (CEGEP)
- Caribbean Advanced Proficiency Examinations (CAPE) when two units are completed
• Danish Studentereksamen
• Finnish Ylioppilastutkinto
• French Baccalaureate exams
• German Abitur exams
• Hong Kong HKALE
• Icelandic Studentsprof – Menntaskoli exams
• Italian Maturita
• Lebanese Baccalaureate
• Netherlands Voorbereidend Wetenschappelijk Onderwijs (VWO)
• Norway Vitnemal
• Singaporean Advanced-level exams
• Swedish Fullständigt Slutbetyg från Gymnasieskolan
• Swiss Federal Maturite exams
• Other European Baccalaureate

Other international high school programs and diplomas will be evaluated for transfer credit on a case-by-case basis. A final evaluation of credit is subject to receipt of official documents and information about the courses of study completed.

Educational Experiences in the Armed Services

The University may accept military learning experiences if these experiences are consistent with recommendations made through the use of ACE (American Council on Education). The Joint Services Transcript (JST) or a transcript from the Community College of the Air Force (CCAF) are the records for these credits. ACE recommendations are provided to assist the University in assessing the applicability of military learning experiences to an educational program. The University may modify the recommendations in accordance with institutional policies and practices.

Credit may be applied to a student's program in various ways: (1) applied to the major to replace a required course, (2) applied as an optional course within the major, (3) applied as a general elective, (4) applied to meet basic degree requirements, or (5) applied to waive a prerequisite. Credit granted by a postsecondary institution will depend on institutional policies and degree requirements.

The learning of some service personnel may exceed the skills, competencies, and knowledge evaluated for a specific course. In these cases, the University may conduct further assessment.

The University requires the prospective student to provide the JST or CCAF transcripts as primary source documents when reviewing military training completed by a service member, verified by the services, and evaluated and endorsed by ACE.

Policies for Credit for Prior Learning:

Credit for any Prior Learning may be applied toward graduation, up to 90 credits:

• Examination: A maximum of 30 credits toward associate and 60 credits toward bachelor’s degrees may be established by examination, except in clinical programs. Credit for any Prior Learning may be applied toward graduation, but not toward residency requirements (30 UC credits). Credit earned by departmental examination will usually be restricted to lower-division (100 and 200 level courses).
• Self-Acquired Competency. Maximum credit awarded for Self-Acquired Competency (SAC) will be 15 credits toward an associate degree and 30 credits toward a bachelor’s degree.

Application for credit for Prior Learning must be submitted prior to the completion of 96 credit credits for bachelor’s degree programs and prior to the completion of 45 credits for associate degree programs. The Registrar must approve any exceptions to this regulation.

Tuition and fees may be charged prior to examination or for posting of credit.

All credits earned through Prior Learning options will be counted for purposes of the Financial Aid Satisfactory Progress policy.

• Self-Acquired Competency. Maximum credit awarded for Self-Acquired Competency (SAC) will be 15 credits toward an associate degree and 30 credits toward a bachelor’s degree.

Travel Program Academic Credit

Several programs, most notably Business, provide travel courses that may award one to three credits. To register for these courses a student must submit a petition to a special review committee consisting of the Dean of the appropriate school, the Director of the appropriate program and a faculty member from the program. The student must prepare, and submit to the committee for its approval, a written report describing the experience before credit can be granted.

To be considered for credit, the travel must be a bona fide, full-time intercultural experience of intensity and depth, which exposes the student to another culture, either interurban or international. In general, one credit is granted for each week of travel to a maximum of six credits.

A Travel Program experience may be developed as an Independent Learning Project (ILP) to meet the Citizenship Outcome for Global Literacy. Students must work with a faculty member to develop methods for demonstrating and documenting required outcomes within the experience and identify methods by which the experience may be assessed. The ILP must be reviewed and approved by the Citizenship Roundtable, which may require alterations to the ILP. The Citizenship Roundtable will review documentation of the experience and review or conduct appropriate assessments before credit for achievement of the Citizen Outcome for Global Literacy is granted. It is possible for one Travel Program experience to meet outcomes in more than one area. For example, an experience could meet outcomes for the Business program and also meet the Citizenship Outcome for Global Literacy. Students should try to maximize such opportunities.

International Exchange Program

In addition to study on the Charleston campus, the University of Charleston recognizes the value of study abroad, which enriches the student’s educational experience and provides intercultural, cosmopolitan, and enhanced pluralistic dimensions of knowledge. These experiences are highly desirable for performance and advancement in various fields, including business, government, and cultural affairs.

The University of Charleston welcomes qualified students from abroad and regularly enjoys the presence of students from some 15 to 20 foreign countries who are
enrolled on the Charleston campus. Likewise, the University has benefited from visiting scholars from such international centers as Rome, Italy; Villa Velha, Brazil; Tokyo, Japan and Baoding, China. Professors and students from the University of Charleston have studied and taught on campuses in other countries and those campuses in turn have sent scholars to the Charleston campus for both short-term and extended residence. The University seeks to promote such exchanges of both students and scholars as a valuable contribution to the learning environment.

**Transient Student**

Study at another institution can be beneficial to a University of Charleston student in a variety of ways, including opportunities to enroll in courses not available at the University, the opportunity to study with other faculty, and the opportunity to experience unique living/learning environments.

Students with a grade point average of 2.0 or better may obtain permission to attend another institution with the intent of transferring credit back to the University of Charleston. Only credits earned at a level of “C” or better will be accepted for transfer back to the University. Credit for the course is reflected on the student’s transcript, but grades are not recorded and may not be used to make up quality point (grade point) deficiencies at the University of Charleston. A student may not be given transient permission for the purpose of repeating a course. Transient credits will be accepted toward fulfilling degree requirements provided approval of courses and written permission are granted by the Registrar and the student’s major advisor prior to the term in which the courses are to be taken. It is the student’s responsibility to request that a transcript be forwarded to the University of Charleston upon completion of the course. Transient students are not eligible for financial aid from the University of Charleston for these courses.

**Military Science Courses**

Students who participate in the Military Science Program (Army ROTC) may count all 20 credits taken in the program as elective credit toward the minimum credits required for graduation. Students who are not participants in the Military Science Program may also take Military Science courses, which may be applied as elective credits toward the minimum credits required for graduation. Courses in Military Science shall not be used to satisfy major or allied field requirements. Military Science courses are not included in the calculation of semester credit limitations.

**Veterans**

Veterans enrolled at the University of Charleston may receive credit for courses taken from the Defense Activity for Non-Traditional Education Support (DANTES) and for special college-level training received while in the Armed Forces. The Director of Educational Partnerships and Military Programs will determine the amount of credit allowed.

**Transfer Students**

The University of Charleston’s outcomes-based curriculum provides distinct advantages to transfer students. In addition to credits that may be awarded by the Registrar for work completed at another accredited institution, students may be able to receive credit for prior learning using strategies outlined in the “Academic Policies” section of this Catalog. Decisions on acceptance of transfer equivalencies within the
program may be referred to the program faculty. However, transfer students should be aware that they must meet the University’s Liberal Learning Outcomes before a degree can be awarded. The awarding of credit for transfer courses does not necessarily equate to recognition of achievement of competencies or Liberal Learning Outcomes.

Students transferring to the University of Charleston may have already met some requirements for graduation. The University of Charleston accepts for credit only courses in which the student has earned a grade of “C” or better. The Office of Admissions will review each incoming student’s academic record and determine the program and Liberal Learning Outcomes requirements the transfer student must complete at the University of Charleston. Transfer students are responsible for submitting an official transcript from all schools attended before enrollment at the University of Charleston.

**University Courses for Transfer students: UNIV 203**

Students transferring into certain academic programs will be required to enroll in UNIV 203 University Transitions. This course is designed to help students complete some elements of the lower-level UNIV courses in an accelerated timeline. Students will be guided through this process by a faculty mentor, become acquainted with the University’s outcomes-based curriculum, be assessed to determine baseline achievement levels on Liberal Learning Outcomes and develop a Master Academic Plan (MAP).

Assignments in UNIV 203 are designed to meet requirements for a variety of portfolios students must complete for graduation.

**Master Academic Plan (MAP)**

Each transfer student will work with his or her faculty advisor to develop a Master Academic Plan (MAP) outlining learning goals and the strategies the student will use to meet Liberal Learning and academic program outcomes required for graduation. The MAP is revised with the support of the advisor as necessary and becomes part of the student’s academic degree plan. Students may revise the Master Academic Plan with the approval of his or her advisor.
COURSES - DEFINITIONS

Traditional Courses (1-4 credits)

Most of the courses described in this Catalog are Traditional courses. For each credit granted, the student participates in one hour of faculty-directed lecture/discussion/activity per week. The student is expected to spend approximately two hours per week per credit hour preparing/studying for that class. Laboratory/Studio/Production classes receive at least one credit and meet for varying lengths of time based on program requirements.

Clinical Courses (1-6 credits)

Clinical courses are a type of Traditional courses, but they vary in the number of hours required and the nature of the work expected of students. Almost all Clinical courses are found in health science programs. Sometimes Regular courses have clinical components and, in some cases, Clinical courses are completely separate. A Clinical course is similar to an Internship with the exception that a group or team of students may be involved and the supervision from instructors is more frequent. The number of hours the student is required to take part in Clinical courses varies extensively and is not guided by the amounts of time prescribed in Regular courses or Internships. In some cases, the Clinical course is a full-time commitment.

Special Topics Courses (1-4 Credits)

Special Topics courses are also similar in many ways to Traditional courses, but they are offered on a one-time basis only. In this Academic Catalog, Special Topics courses do not list a specific title, i.e., HIST 350 Topics in History: The American Civil War (3 credits). These courses allow faculty to teach courses in special fields of expertise from time to time and provide attractive opportunities for students to delve more deeply into academic disciplines. Special Topics courses are assigned the number 350.

Independent Study (1-6 credits)

Independent Study courses are offered on a tutorial basis. The content of the course may be suggested by the student to supplement work in his or her major field of study, or it might be suggested by a faculty member to give a student greater experience in the research in the major. However, the content is not the same as delivered in a Regular course. A full-time faculty member must determine if the student has a sufficient academic background to pursue an Independent Study course successfully. The student and faculty member work together to design the syllabus. The student then signs this syllabus to indicate agreement with course requirements. The student and the sponsoring faculty member should be in contact once every week or every other week for a total of 15 hours for the duration of the course to assess the progress of the study. Independent Study courses usually carry the number 299 or 499.

Independent Learning Project (variable credit based on competency)

An Independent Learning Project allows students to demonstrate competency in a program outcome or Liberal Learning Outcome (LLO) outside the formal course structure. The student must identify a faculty sponsor who helps the student formulate a project plan for the ILP, including activities and assessment of learning. The faculty sponsor assesses the student’s final product. Forms for submission of Independent Learning Projects for LLOs can be found on the University portal MyUC on the Student Resources – Student Solutions Center page or the Faculty Center page. You must have a
UC login to access these pages. The timeline as stated on the form for submission of an LLO Independent Learning Project and final work product will be strictly enforced.

To prevent any delay in receiving their degree, graduating students must submit these forms to the appropriate Roundtables on the following timeline:

November 1st for spring (May) and summer (August) graduation candidates; and April 1st for winter (December) graduation candidates.

**Internship (1-16 credits)**

Internships provide opportunities for a student to apply principles learned in Regular courses to a career-related work experience. The student, with the assistance of the supervising faculty member and the University’s Center for Career Development, identifies an appropriate Internship placement site and work-site supervisor. The faculty member and student complete a Learning Contract outlining learning outcomes and competencies the student is expected to achieve, the method of assessing achievement, and the means of maintaining communication between all parties. The faculty member and the Director of the Center for Career Development communicates the terms of the Learning Contract to the work site supervisor. A copy of the Learning Contract is retained by the supervising faculty member, the student, the work site supervisor, and by the Center for Career Development. The amount of academic credit granted to the Internship should be determined by comparison with student effort in Laboratory/Studio courses. An internship usually requires a minimum of 40 hours of involvement for each academic credit. Internships usually carry the course number of 298 or 498. No student may take more than 16 credits of Internship in the 120 credits required for graduation.

**Directed Study (1-4 credits)**

Directed Studies are Regular courses which, under exceptional and limited circumstances, are taught on a basis arranged between the student and the instructor and approved by the Dean of the School. A course taken by Directed Study will only be recognized if a Change to Schedule form is completed and filed in the Student Solutions Center prior to the beginning of the course.

**College Preparation (1-3 credits)**

These courses, identified by numbers beginning with a “0,” e.g. 095, are meant to prepare students for college-level work. Equivalency courses do not count toward the 120 credits required for graduation, but they do count as part of the academic load for purposes of financial aid and to determine academic good standing. Some students, athletes in particular, need to monitor the number of equivalency courses included in college work. For more information on these limitations, consult the faculty athletic representative or the Registrar.

**Online Course** – An online course is one in which 81% or more of course activities occur only through internet-based communication and interaction.

**Hybrid Course** – A hybrid course combines traditional, face-to-face class time with online and out-of-class course work. Hybrid courses replace face-to-face class time with 30% – 80% online or out-of-class work. The student must attend face-to-face classes at the location designated on the course schedule.

**Web-enhanced Course** – A web-enhanced course meets in a face-to-face environment during regularly scheduled class hours and uses internet-based activities and resources to enhance the face-to-face experience. Most of University of Charleston classes are web-enhanced.
Special Course Designations

Liberal Learning Outcomes (LLO) Courses

Courses that include opportunities for meeting one or more Liberal Learning Outcomes are “LLO courses.” Opportunities for meeting Liberal Learning Outcomes are integrated with the students’ regular course work in LLO courses. A student must meet all the competencies for the course and the specified Liberal Learning Outcome at a level of “C” or better to pass an LLO course.

Portfolios

A collection of completed student work (papers, artwork, computer programs or media, etc.) used to demonstrate achievement of an outcome is called a “Portfolio.” The portfolio may be built over the course of several Regular classes as described in the syllabi.

While achievement of any outcome may be assessed through a portfolio evaluation, students are required to submit evidence of achievement via a portfolio for the foundational Communication LLO in COMM 101, COMM 102 and SPCH 103. In many cases the work necessary for completion of these foundational level Communication portfolios takes place in First-Year Experience (FYE) classes in humanities, social science and natural science. A student may also put together a portfolio documenting work and learning done outside of class.

Portfolios are submitted periodically for assessment and feedback. Competency will be awarded for outcomes when assessment shows the outcome has been achieved at the required level.

Prerequisite Courses

Students may be required to prove a certain level of competence or complete specific courses before being allowed to enroll in a specific course or participate in a learning experience. Questions concerning prerequisites should be referred to the course instructor. Students who have not met all the prerequisites may be excluded from the course or the instructor may waive the prerequisite, based on demonstrated competence or equivalent academic experience. Prerequisites are listed in the course descriptions in the Catalog.

Co-requisite Courses

Students may be required to take two courses simultaneously, such as a science lecture and an accompanying lab. Content and competencies of co-requisite courses are linked.

COURSE NUMBERING SYSTEM

000-099 ........ College Preparation courses.

These courses count as part of the student’s academic load, but credit cannot be used to meet graduation requirements.

100-199 ........ Lower division freshman level courses.

200-299 ........ Lower division sophomore level courses.

300-399 ........ Upper division junior level courses.

Freshman may not enroll without permission of the Department Chair and Dean responsible for the course.
400-499 ...... Upper division senior level courses.
          Freshman may not enroll without permission of the Department Chair and
          Dean responsible for the course.
L-Courses ..... Course numbers followed by “L” denote laboratory courses.
X-Courses ..... Course numbers followed by “X” denote one-time experimental courses,
          which may be offered again under a permanent number once approved by the
          appropriate Curriculum Committee.
500-999 ...... Graduate level courses.
          Open to advanced undergraduate students with instructor permission.

Courses listed in this Academic Catalog are subject to change through normal academic
channels.

STUDENT CLASS STANDING (YEAR IN THE UNIVERSITY)

Students are classified by the cumulative number of semester credit hours they
have earned as recorded in the student’s official records. The cumulative number of hours
will include all institutional credit earned at University of Charleston and all transfer
credit which has been presented by the student and accepted by the Registrar. Acceptance
of transfer credit is indicated by the credit being recorded in the student’s record as
maintained by the institution.

Students are classified as follows:
  Freshmen ...... 25 or fewer hours earned
  Sophomores ... 26-60 hours earned
  Juniors .......... 61-90 hours earned
  Seniors .......... 91 or more hours earned

These classifications will apply for institutional and federal financial aid as well
as in any academic uses which may exist in the various catalogs and publications
regarding undergraduate study.

GENERAL COURSE POLICIES

The minimum enrollment for a course is eight (8) students. Courses with enrollments of
less than eight students are subject to cancellation by the Department Chair, School
Dean, or the Provost.
Credit can be counted toward a degree only once for a course covering a specific body
of knowledge. No credit can be given for a second course covering essentially the
same body of knowledge, even though there is a difference in the course titles and/or
number.
Certain courses may be counted toward a major in more than one department (cross-
listed). Cross-listed courses are given designations under both departments, and
listed under both departments., Even though the course numbers are different, the
course may not be taken twice to earn credit for both course numbers.
In order to provide a wider range of courses for students, certain advanced courses are
offered on a rotating basis or only if the number of students majoring in the field
justifies the offering of the course. To determine which courses will be offered in a
given year, the official Class Schedule must be consulted.
Semester Credit Limitations

An undergraduate student wishing to enroll in more than 18 semester credits* must have the permission of his/her advisor, a cumulative grade point average (GPA) of at least 3.50 and must have completed at least 45 semester credits. A student who wishes to enroll in more than 23 semester credits must petition his/her advisor’s School Dean, who will seek the Provost’s approval of the request. A fee per credit will be charged over 18 credit hours.

*Total credits counted toward the limitation do not include the following courses when delivered in-seat: COMM 101, COMM 102, SPCH 103, UNIV 101, UNIV 102, UNIV 203, MGMT 355 (Free Enterprise), MUSC 324 (Concert Choir), MSCI (Military Science), and MUSC 327 (Band), BIOL-126, BIOL 496 (Seminar in Science) and BIOL 497 (Science Research Portfolio).

Changes of Instructors and Class Sections

The University of Charleston reserves the right to close sections of classes and to add new sections of classes as conditions warrant. In addition, the University reserves the right to change instructors from those listed in the Class Schedule whenever such a change is necessary.

Changes of Courses and Class Schedule Change

15-16-week courses: A student may not add a class after 5 p.m. on the 5th school day of a fall, spring, or summer semester. A student may drop a class prior to the 11th day of the semester without receiving a “W” grade. If a student drops a course between the 11th day of the semester and the Wednesday of Week 11 (i.e. last day to drop), a “W” will be recorded. If a student drops a course after the last day to drop a class a “WF” will be recorded. If the student wishes to add or drop a class outside these dates permission must be obtained from the class instructor and the student’s advisor. Students should be advised that dropping or adding a course may affect the student’s financial aid. The form for gaining such approval may be obtained from the Student Solutions Center. COMM 101 and 102, and SPCH 103, and UNIV 100 are exceptions to this policy, and may be added whenever appropriate.

7-week courses: A student may not add a class after the 3rd school day of a fall, spring, or summer session. A student may drop a class prior to the 6th day of the session without receiving a “W” grade. If a student drops a course between the 6th day of the session and the 15th school day of a term (i.e. the last day to drop), a “W” will be recorded. If a student drops a course after the last day to drop a class a “WF” will be recorded. If the student wishes to add or drop a class outside these dates permission must be obtained from the class instructor and the student’s advisor. Students should be advised that dropping or adding a course may affect the student’s financial aid. The form for gaining such approval may be obtained from the Student Solutions Center. COMM 101, 102, and 103, UNIV 100 and UNIV 112 are exceptions to this policy and may be added whenever appropriate.

5-week courses: A student may not add a class after 5 p.m. on the 2nd school day of a 5-week session. A student may drop a class prior to the 7th day of the session without receiving a “W” grade. If a student drops a course between the 7th day of the semester and the 11th school day of the term (i.e. the last day to drop), a “W” will be recorded. If a student drops a course after the last day to drop a class a “WF” will be
If the student wishes to add or drop a class outside these dates permission must be obtained from the class instructor and the student’s advisor. Students should be advised that dropping or adding a course may affect the student’s financial aid. The form for gaining such approval may be obtained from the Student Solutions Center. COMM 101, 102, and 103, UNIV 100 and UNIV 112 are exceptions to this policy and may be added whenever appropriate.

Withdrawal from the University

A student desiring to withdraw totally from the University of Charleston must obtain a “Complete Withdrawal” form from the Dean of Students and submit the completed form to appropriate offices. In order to complete the form, the student must consult with the Dean of Students.

- Charleston: Student Solutions Center – Phone 304-357-4947
- Beckley and Online: Student Solutions Center – 1-877-393-5014

Withdrawal will be granted when the completed form with proper signatures are presented to the Student Solutions Center. If a student withdraws before the last day to drop a grade of “W” will be recorded on the student’s record. If a student withdraws after the last day to drop a grade of “WF” will be posted unless the withdrawal is approved for medical reasons.

Medical Withdrawal from the University

A student must submit documentation from a medical doctor, physician assistant, nurse practitioner or other qualified health care provider stating that there is a medical reason for withdrawal and that the student is under the care of a health care professional. Documentation is to be submitted to the Dean of Students and should consist of a letter/e-mail from the student formally requesting a withdrawal and a medical diagnosis/treatment plan signed by a qualified health professional on office stationary which explains why the student should be withdrawn from courses on the basis of medical considerations. Medical withdrawal requests are subject to approval by the Provost and the Chief Financial Officer. Requests for a medical withdrawal must be submitted by the last scheduled day of classes for the semester or term in which the student is currently enrolled in classes, as specified in the academic calendar. If the withdrawal is granted the student will receive a “W” on his or her transcript for the courses in question. Withdrawal from the University also may require cancellation, refund or repayment of all or part of the student’s financial aid package.

Military Service

Men and women called to active duty in the armed services of the United States shall be granted a full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the semester or term. Full credit, but no refund of fees, shall be granted if the call comes thereafter; provided, that credits as described above will be granted only in those courses in which the student is maintaining a passing mark at the time of departure to military service. The term “called to active duty” is herein defined as being called to active duty as a result of the federal activation of a total reserve component, National Guard unit or any portion thereof which involves a particular student or an individual who is a bona fide member of the reserve component or a National Guard unit. The student’s final grades, both passing and failing, for three-fourths of a term/semester or more, will be shown on the student’s permanent record. Withdrawal from the University may require cancellation, refund or repayment of all or part of the student’s financial aid package.
In-seat Class Attendance Policy

- The faculty of the University of Charleston expects students to attend/participate in all sessions of classes for which they have registered. The University does, however, recognize several types of excused absences:
  - Illness of a student;
  - Attendance at a University-approved function, e.g., a field trip;
  - Representing the University, as a member of a University-sponsored team or music ensemble for competition or performance; and
  - Personal or family emergency, e.g., severe illness or death of a parent.

It is always the responsibility of the student to inform an instructor in advance if he or she is unable to attend or participate in instructional activities. In the event of an excused absence it is the responsibility of the student to make up work that is missed. Individual programs or faculty may have more restrictive policies, which will be published in the respective handbooks and/or syllabi.

- A student’s grade may be lowered unless the work missed is made up to the satisfaction of the instructor. Since all absences represent a loss in classroom activity and learning opportunity, no absence (even an excused one) will relieve the student of academic responsibility.

- A student with an excused absence must be permitted to make up a test or other work missed within a reasonable time, e.g., within two weeks of the excused absence. Individual instructors are permitted to determine the definition of “reasonable time.”

- The faculty member shall communicate the attendance policy in each syllabus. The instructor should communicate the policy to each class at the beginning of the semester and explain its application to his or her particular class.

- Individual program may have more restrictive policies (i.e. Pharmacy, Nursing, etc.) which will be published in the relevant student handbook.

ONLINE CLASS PARTICIPATION POLICY

It is suggested students access the course several times each week in order to receive assignments, submit assignments, participate in discussions, and receive instructor feedback.

You are required to attend this course through active participation in the course within the first week of class to confirm your enrollment and attendance. Active participation may be fulfilled by one of the following methods:

- Discussion post
- Completion of an exam or quiz
- Submission of an assignment

If a student fails to engage in at least one of these activities during the first week, he or she is considered ‘non-attending’. If you do not attend the course as stated above, the Registrar’s Office will be notified and you will be dropped from the class roster.

GRADING POLICIES

Students are graded on class attendance and participation, required readings, written reports and papers, tests, oral presentations, other faculty designated activities and assessments. The student receives a final report of his or her level of achievement on academic work at the close of each semester. In addition, students enrolled in semester-length courses receive a midterm grade report so that he or she can seek assistance if necessary.
Grading Scheme

Students may receive one of the following letter grades: A, B, C, D, F, I, P, W, and AU. The instructor determines the grading scale for each individual course, i.e., the level of performance required to earn a particular letter grade. The significance of each letter grade is as follows:

A.......An honor grade given for ability and performance of an exceptionally high quality.
B.......Represents performance distinctly better than average.
C.......Represents performance of average quality.
D.......The lowest grade for which a student earns academic credit. A grade of “D” may not meet the standards necessary to fulfill program outcomes. Such standards are stated in program or course outcomes descriptions. A grade of “D” does not indicate competency in Liberal Learning Outcomes.
F.......Represents failure to meet the outcomes or requirements of a learning experience.
FX......Failure – Violation of Academic Integrity Policy*
I.......Is a temporary grade that indicates a student’s work is “Incomplete” because of illness or other unavoidable reasons and additional time is being allowed for completion. A grade of “I” will not be awarded if the student has completed less than 20% of the coursework. See section “Removal of an Incomplete.”
I/F.....Designates an “I” (Incomplete) grade that was automatically changed to “I/F” at the end of the allowed time for course completion.
IM.....Is a temporary grade that indicates a student’s coursework is “Incomplete” because of military deployment and additional time is being allowed for completion. The student must notify the Faculty members teaching the course(s) and the UC Director of Educational Partnerships and Military Programs (EPMP) as soon as they are notified of the deployment. The student will work with their unit Commanding Officer (CO) to provide evidence of this deployment for approval prior to actual deployments. A grade of “IM” will not be awarded if the student has completed less than 20% of the coursework.
IM/F Designates an “IM” (Incomplete due to Military Deployment) grade that was automatically changed to “IM/F” at the end of the allowed time for course completion. See section “Removal of an Incomplete due to Military Deployment.”
P.......Represents Passing. It is the grade that is assigned to represent satisfactory completion of the following:

- Courses designated Pass/Fail;
- Work for which fractional credit is allowed by the University because of interruption of courses by entrance by the student into the Armed Forces;
- Work in required activity courses in physical education for which the student is not physically qualified, as evidenced by a physician’s certification and in which the scholastic average maintained by the student in all other phases of the course is 2.0 or above;
- Courses for which credit is established by examination;
- Courses in which students elect the Pass/Fail option;
- Credit for experience.

W.......Indicates the student withdrew from the course on or before the last day to officially withdraw.
WF .... Withdraw from a course after the last day to officially withdraw from a class unless the withdrawal is approved medically.

AU ..... Signifies that the student registered for the course on the Audit plan and did not desire to submit the evidence necessary for academic credit in the course. Once a course is audited it may not be taken again for credit.

*Effective Academic Year 2012-2013.

Removal of an Incomplete (“I”) Grade

To change a grade of “I” (Incomplete) to a regular letter grade and receive credit for a course or other learning experience, the student must complete all coursework by the time designated below.

- 15-16-week courses: the 10th week of the following semester (If the “I” is in the spring semester the following semester would be the fall semester.)
- 7-week courses: the 5th week of the following session

Failure to complete coursework within this time frame will result in the course grade being recorded as “I/F.” If a student receives an incomplete grade in a prerequisite course, he or she will not be allowed to enroll in the subsequent course until satisfactory completion of the prerequisite course.

Removal of an Incomplete due to Military Deployment (“IM”) Grade

- To change a grade of “IM” (Incomplete due to Military Deployment) to a regular letter grade and receive credit for a course or other learning experience, the student must notify the Director of EPMP of the end of the deployment by working with their unit CO and complete all coursework within a) two semesters for 15-week courses or b) four terms for 7 week courses of the end of deployment identified on the documentation of the deployment.

Failure to complete coursework within this time frame will result in the course grade being recorded as “IM/F.” If a student receives an incomplete grade in a prerequisite course, he or she will not be allowed to enroll in the subsequent course until satisfactory completion of the prerequisite course.

Quality Points and Grade Point Average

Each letter grade has a numerical equivalent as indicated below. These equivalents are called “quality points.” Quality points are multiplied by the number of credits a student earns for each course. The results for all courses are added together and divided by the total number of credits earned by a student to calculate his or her cumulative Grade Point Average (GPA). Courses in which grades are “P,” “W,” or “AU” are not included when calculating GPA.

A .......... Four quality points per credit
B .......... Three quality points per credit
C .......... Two quality points per credit
D .......... One quality point per credit
F .......... Zero quality points per credit
WF ...... Zero quality points per credit
I .......... Not included in credits attempted for GPA calculations
DEAN’S AND PROVOST’S LISTS

Dean’s List
Every student who earns a semester Grade Point Average of 3.60-3.99 for a full-time schedule of courses consisting of 12 or more credits is eligible for the Dean’s List. These twelve credits may not include more than 3 credits that are Pass/Fail. The Deans of each School will recognize these students.

Provost’s List
Every student who earns a semester Grade Point Average of 4.0 or higher for a full-time schedule of courses consisting of 12 or more credits is eligible for the Provost’s List. These twelve credits may not include more than 3 credits that are Pass/Fail. The Provost will recognize these students.

The Dean’s and the Provost’s List are calculated within one month after the end of each 15-week semester. The Dean’s and Provost List are not calculated for the summer term. A student who is ineligible for inclusion at the time the lists are calculated will not be given Dean’s or Provost’s List status retroactively. For example, a student who completes an Incomplete, i.e., “I” grade, after the list is calculated and raises his or her GPA to 3.60-3.99 will NOT receive Dean’s List status. Omissions or errors in calculation on the part of the University of Charleston, however, will be corrected when detected.

POLICY ON GRADE APPEAL

The assignment of grades for academic work is an important matter that falls within the professional responsibility of each individual faculty member. Grades are determined in such a way as to reflect as accurately as possible student performance according to criteria available to the student and so as to protect the academic freedom of the faculty member and the student. It is recognized that there is an inherently subjective element to grading, but it does not follow from this that grading is done in an arbitrary fashion.

It is possible that a student may dispute a final grade given for a course. When this occurs, the student should follow the procedure outlined below. However, it should be recognized that the faculty member issuing the grade generally has final authority and responsibility for determining that grade. In order to appeal a grade:

Step 1 – Within two weeks of the end of the course, the student should provide a grade appeal in writing to the faculty member who assigned the grade and attempt to resolve the issue.

Step 2 – If no resolution of the grade dispute is achieved after Step 1; the student should discuss the matter with the department chairperson. In this case, the function of the chairperson will be to attempt to determine the relevant facts and mediate the disagreement.

Step 3 – If no resolution is achieved at Step 2; the student or the faculty member may refer the whole matter to the Dean of the School, whose function it will be to mediate the disagreement. The Dean will confer privately with the faculty member and the student; the Dean also may call additional witnesses if this is deemed important. Following this process, the Dean will communicate a decision to the faculty member, who will communicate that decision to the student. This step is the final step in the appeal process.
It is expected that a final decision will generally be made within the first six weeks of the following semester or the first three weeks of the following session. The instructor and the student should resolve grading conflicts regarding individual assignments during a semester.

**Course Repeat Rule**

A student earning a grade of “D”, “I/F” or “F” in a course may repeat the course once to attempt to achieve a higher grade.

**Exceptions:** Students may not repeat UNIV 101 or UNIV 102. The original grade will remain on the student’s academic record, but it will not be calculated into the cumulative grade point average (GPA).

A student is discouraged from repeating a course in which he/she has already earned a “B” or “C” grade. The grade earned when the course is repeated is the grade used in determining the student’s cumulative GPA.

A course in which the student has earned a grade of “A” may not be repeated.

The Registrar in consultation with the student’s program coordinator may grant an exception to the “Repeat Rule.”

**Pass/Fail Option**

Sophomore, junior and senior students who are not on academic probation may elect a maximum of eighteen (18) credits for Pass/Fail grading to apply to electives. Student may not elect Pass/Fail grading in courses used to meet Liberal Learning Outcomes or for courses required for the major. No more than five (5) credits per semester may be Pass/Fail. A grade of “P” will not be calculated in determining Grade Point Averages; a grade of “F” will be calculated. Courses in the major or allied field may not be taken on Pass/Fail basis. The student must declare intentions concerning Pass/Fail before the end of the second week of a semester, before the second day of a summer or prior to the beginning of an online course session by completing the Pass/Fail Request Form available in the Student Solutions Center or in the MyUC portal under Student Resources – Student Solution Resources.

**ACADEMIC PROBATION AND ACADEMIC DISMISSAL POLICY**

An undergraduate student with a cumulative Grade Point Average (GPA) of 2.00 or higher is considered to be in “Good Academic Standing” with the University of Charleston. When a student does not obtain a cumulative GPA of 2.0 or higher they are subject to the University’s policy on Academic Probation and Dismissal. Graduate students must follow the policy of the program of study. The following policy is in effect for undergraduate students matriculating after January 2003:

- **Level I Probation** – Students who obtain a GPA less than 2.0 must meet with their mentor and major advisor to discuss plans for better performance. If appointments are not made or kept, the student will not be allowed to register for subsequent semesters. Students who obtain a GPA less than 2.0 will be limited to a maximum of 15 credits in the following semester, one of which will be the ASC 091 Personal Academic College Success (PACS) class. Part of this class includes the creation of a contract describing how the student will improve academically. Failure to successfully complete this class will result in dismissal from the University.
• **Level II Probation** – Students who obtain a term GPA less than 2.0 a second time are placed on Level II probation. They can register for a maximum of 12 credits in the subsequent semester with the approval of the major advisor and the School Dean. Students on Level II Probation are not allowed to register online. The schedules of students who are pre-registered for more than 12 hours may be subject to administrative revision. Students may only be on Level II Probation for one semester over their time at the University.

**ACADEMIC DISMISSAL FROM THE UNIVERSITY**

• A student who obtains a term GPA in any term of less than 1.0 and whose cumulative GPA is less than 2.0 will be dismissed from the University.

• Failure to successfully complete ASC 091 during Level I Probation will result in dismissal.

• Failure to obtain a term GPA of 2.0 or higher while on Level II Probation may result in dismissal from the University. The final decision on dismissal will be made considering the following factors: significant improvement of the term GPA and an improvement in the cumulative GPA. Students must have a minimum cumulative GPA of 2.0 (some academic programs have higher requirements) to graduate from the University of Charleston.

**ACADEMIC DISMISSAL APPEAL PROCEDURE**

A student who is dismissed has ten (10) working days in which to appeal via the following process:

• Student will notify the Registrar in writing (email is acceptable) of his/her intention to appeal;

• Registrar notifies the Student Affairs Committee;

• The Student Affairs Committee will review the written appeal and make a decision as to whether to grant or deny the appeal; and

• The Chair of the Student Affairs Committee will notify the student of their decision.

Students who have been academically dismissed may request to return to the University after one year. The student will need to submit to the Registrar a written description detailing what he/she has done since leaving and why they believe their record will improve if they are readmitted, including appropriate documentation. The Registrar must approve the readmission request before it is acted upon by the Office of Admissions. Examples of possible demonstration that the student will be successful if readmitted include:

• Successful completion of courses at another institution with grades of “C” or higher. The student must keep in mind that courses taken at another college may not be used as part of the D/F Rule to replace grades of “D” or “F” at the University of Charleston.

• Submission of a letter of recommendation from their employer, supervisor or commanding officer.
ENGLISH AS A SECOND LANGUAGE PROGRESSION POLICY

Students whose native language is not English, who have not met the minimum TOEFL requirement for admission, must complete the CaMLA English Placement Test (EPT) and writing sample to determine if they will enroll in the ESL bridge program. Please see scores and corresponding course placement below:

- < 61 Advanced Level ENSL course required – ENSL 096
- 70+ ENSL requirement waived

Completion of the ENSL program includes the following:

- ENSL 096 – Advanced English Integrated Skills with a grade of pass or fail unless the student was not required to take this course based on a diagnostic evaluation by the ESL Program Director.

Students who score higher than 70 on the placement test but desire ESL instruction may opt to enroll in ENSL 096.

Students enrolled in the courses (ENSL 096) who have a passing score of 70% or higher will complete an exit assessment portfolio at the end of the semester. The portfolio will consist of three parts:
1. CaMLA EPT
2. Nelson Denny
3. Writing Sample

- If the student scores a 70 or above on the CaMLA, scores above a 10th grade reading level on the Nelson Denny, and scores above a 3 on the writing sample, the student will have achieved the level of proficiency needed to fully integrate into the undergraduate curriculum and may enroll in any undergraduate classes the academic advisor deems appropriate.

- If the student scores below a 70 on the CaMLA, the student may receive a grade of “F” in ENSL 096 and subsequently be required to repeat both courses.

- If the student scores below a 10th grade reading level on the Nelson Denny, s/he will be placed in ASC 100 College Reading in addition to regular classes.

- If the student scores below a 3 (UC Writing Rubric) on the writing sample, the student will be placed in standalone COMM 101 in addition to regular classes. These students will be permitted to take FYE courses after successful completion of COMM 101.
GRADUATION

Program Comprehensive Assessment

All students who plan to receive a baccalaureate degree must successfully complete a comprehensive assessment, usually during his or her final semester at the University. The assessment may be prepared and administered by faculty in the student’s major discipline or program, or it may be a nationally normed examination, such as the Graduate Record Examination or the National Teachers Examination. Details of the examination or assessment method in a particular major are available from the program chair for the major.

Graduation Application

A student must complete a Graduation Application to receive a degree. So that students may be appropriately advised, application deadlines are scheduled prior to registration for the expected final semester. Applications are available online and should be submitted to your Advisor for approval. Charleston and Beckley student applications and approved program evaluations need to be submitted to the Student Solutions Center after you have approval and signature from your advisor. Online students must send their graduation application to their advisor for approval. Their advisor will submit the approved application and program evaluation to the graduation email box. Specific deadlines will be published on the University webpage.

If a student applies for graduation but, does not graduate that semester he/she needs to let the Registrars’ Office know when they will be completing their degree. Your application will be moved to that semester at no additional charge. If the student fails to graduate in the new semester in which he/she was moved, then the application is voided. The student will be required to submit a new graduation application and pay the graduation fee again.

Commencement Participation

Students who have completed graduation requirements, submitted an August Graduation Application and are no more than eight (8) credit hours from degree completion may request to participate in the May commencement ceremony. Students must participate in the commencement ceremony their degree is conferred.

Graduation with Honors

To graduate with honors a student must have completed at least 50 percent of the course work required for graduation in the student’s program at the University of Charleston. Example: To be considered for honors a bachelor's degree needs 60 credits hours and an associate degree needs 30 credit hours completed at the University of Charleston. The student must also have maintained a minimum 3.50 GPA for all work completed at the University of Charleston. The type of honor awarded will be based upon the GPA on all work taken, including that of the student’s last semester, as follows:

Bachelor’s Degree

- Cum laude, 3.50-3.74;
- Magna cum laude, 3.75 to 3.89;
- Summa cum laude, 3.90 to 4.0.

Associate Degree

- With Honors, 3.50 to 3.74;
- With high honors, 3.75 to 3.89;
- With highest honors, 3.90 to 4.0

Graduate Degrees:

Each graduate program determines the title and expectations for honors.

NOTE: Honors are based on all work completed at the University. Final grades must be officially entered for the course to be considered completed. Students who apply to graduate in August will NOT be recognized for honors in the May commencement ceremony. Honors will be denoted on the diploma and official transcript.
Educational Records (FERPA)

Family Educational Rights and Privacy Act Policy Summary

The University of Charleston is committed to maintaining the confidentiality of student records and abides by the Family Educational Rights and Privacy Act (FERPA). The law ensures the confidentiality of student records, permits the student access to his or her records and prohibits the release of records except by permission of the student or by a court order, while permitting the continued release of “directory information” without specific permission of the student. Information determined to be part of a student’s educational record may be released according to the guidelines in this policy. Any other anecdotal information will not be released without the student’s express written consent and/or personal involvement.

Educational Records

The University of Charleston designates the official records maintained in the following locations as educational records:

<table>
<thead>
<tr>
<th>Record</th>
<th>Custodian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registrar’s Office</td>
<td>Registrar</td>
</tr>
<tr>
<td>Student Solutions Center Cashier</td>
<td>Cashier – Student Solutions Center</td>
</tr>
<tr>
<td>Office of Student Life</td>
<td>Dean of Students</td>
</tr>
<tr>
<td>Office of Financial Aid</td>
<td>Director of Financial Aid</td>
</tr>
<tr>
<td>Academic Success Center</td>
<td>Director, Academic Success Center</td>
</tr>
</tbody>
</table>

Disclosure of Educational Records

In most cases, the University of Charleston will not disclose information from a student’s educational records without the written consent of the student. Normally, disclosure of educational records will occur only when the student or other eligible person makes an express request for such disclosure. All requests for information must be made in writing unless being made by an on-site University of Charleston official. The exceptions in which a student’s educational records may be disclosed without consent include:

- Requests from University of Charleston officials who have a legitimate educational interest in the records;
- Officials of another school in which a student seeks or intends to enroll;
- Requests from certain government officials;
- Appropriate parties in a health or safety emergency; and
- Requests from parents of an eligible student who is claimed as a dependent for income tax purposes. The University will assume students are independent until a written request is made and proof of dependency is shown.

A student must complete the “FERPA Disclosure of Student” form and provide the University with a 4-digit PIN number and family names to allow them to speak about grades or financial information concerning the student. Otherwise, grades are posted electronically only.

The University of Charleston will maintain a record of all requests for and/or disclosures of information from a student’s educational records, except for disclosure to University officials. The student may review this disclosure record in the Student Solutions Center.
The University of Charleston will not disclose information over the telephone, nor will it initiate disclosure, except in cases of health or safety emergencies, serious crimes or to complete financial obligations to the University.

Directory Information

The University of Charleston designates the following items as Directory Information:

- Student name, address, and telephone number;
- E-mail address;
- Date and place of birth;
- Major field of study;
- Participation in officially recognized activities;
- Height and weight of athletic teams;
- Dates of attendance;
- Degrees and awards received;
- Most recent school attended; and
- Other similar information.

The University may disclose any of these items without prior written consent of the student unless the student has completed and filed in the Student Solutions Center a “Request to Prevent Disclosure of Directory Information” form. This form must be completed annually.

Procedure to Inspect Educational Records

Students may inspect and review personal educational records by submitting a written request to the custodian of the records or other appropriate University employee, stating as precisely as possible the record or records he or she wishes to inspect. The records custodian or an appropriate University employee will make the needed arrangements for access as promptly as possible and notify the student of the time and place where the records may be inspected. Access must be given in five (5) working days or less from the date of receipt of the request. When a record contains information about more than one student, the student may inspect and review only the records relating to him or her. The fee for copies will be 50 cents per page and must be paid at the time copies are made.

The student has the right to inspect his or her educational records at least once per year. Transcripts may be reviewed by appointment in the Student Solutions Center.

Correction of Educational Records

Students have the right to ask that records they believe are inaccurate, misleading or in violation of privacy rights be corrected. To initiate the process for the correction of records a student must submit a written petition to the custodian of the educational record, asking that it be amended. The petition should identify the part of the record to be amended, the reasons why the student believes it is inaccurate or misleading and the action requested.
ACADEMIC INTEGRITY

Academic Integrity Policy

For a community of learners to thrive, all members must engage in the educational process with honesty and integrity. The University of Charleston community holds firmly to the belief that all members of the community are responsible for promoting and protecting academic integrity. Cheating, plagiarism, fabrication, or facilitating academic dishonesty will not be tolerated.

It should be noted that a hearing involving academic dishonesty – discussed below – is an academic matter, and not a criminal or civil legal proceeding. Rather, it is a process unique to the community of scholars that comprise a university. It is designed to protect the rights of the students accused of violating integrity standards, to educate students, and to deter further violations. Faculty members may use evidence and their professional judgment to determine whether a student has violated academic integrity. The standard to be used in determining whether an academic integrity violation has occurred is “preponderance of evidence” rather than “evidence beyond a reasonable doubt.”

The University of Charleston believes that students learn and develop greater knowledge of academic integrity as part of our educational process. The Academic Integrity process is designed to facilitate a student’s development of this understanding while requiring accountability for violation of the policy. The following is an outline of the levels of academic integrity infractions and sanctions:

Academic Dishonesty Levels

1) Minor Infraction (Student lacks understanding)
   a. Examples include but are not limited to:
      i. Improperly formatted citation(s) within a document.
      ii. Improper in-text citation.
      iii. Partial paraphrase – student makes an attempt but lacks understanding.
   b. Consequences
      i. First infraction – Training with Reference & Instruction Librarian and/or possible failure of assignment at the faculty member’s discretion. Failure to comply within one month of notification will result in the sanction being upgraded to a standard infraction and the student will receive an automatic F in the course.
      ii. Second infraction – This becomes a Standard Academic Violation. See section 2-b-i.

2) Standard Academic Violations (Cheating, plagiarism, fabrication or facilitating academic dishonesty)
   a. Examples include but are not limited to:
      i. Second minor infraction
      ii. Cutting and pasting or manually copying another’s intellectual property w/o proper citation
      iii. Cheating on exam
      iv. Giving or receiving answers to a test or assignment
      v. False insertion of citation
vi. Copying a classmate’s assignment and passing it off as your own work.

vii. Collaborating inappropriately (anything not approved by your professor) while completing outside coursework.

b. Consequences

i. First infraction (or second minor infraction) – Failure of the course (F). An “F” indicates that the course can be repeated and the grade can be replaced. Student must also complete training with the Reference & Instruction Librarian (See section 1-b-i). If training is not completed the “F” will be change to an FX in the course. With an FX the student can repeat the course but the grade will remain on the student’s transcript and will be calculated in their GPA. (See section 2-b-ii)

ii. Second infraction – Failure of course with dishonor (FX). A student can repeat the course but the grade will remain on the student’s transcript and will be calculated in their GPA. Student must also complete training with the Reference & Instruction Librarian (See section 1-b-i.) If training is not completed the FX will be considered egregious. (See section 3-b-i)

iii. Third infraction – This becomes an Egregious Academic Violation. (See section 3-b-i)

3) Egregious Academic Violations (Above and beyond standard academic violations)

a. Examples include but are not limited to:

i. Third standard violation

ii. Stealing and/or sharing exams or other work or documents

iii. Buying or selling papers for the purpose of cheating

iv. Impersonating another student or to have another person impersonate you in any academic work such as testing, papers or online assignments.

v. Fabrication of research results or falsifying a report of research processes

b. Consequences

i. Failure of course with dishonor (FX) and expulsion from the university

NOTE: Students caught assisting other students with their coursework who are doing so in an unethical manner (cheating) and who are also not enrolled in the course with the student they are assisting will then be sent to the Office of Student Leadership and Engagement. The office will handle the case under the “Acts of Dishonesty” portion of the Student Handbook (pg. 82).

Procedure

If a faculty member has reason to believe that a student may have committed a violation of the Academic Integrity Policy, the faculty member will conduct and complete an investigation to confirm the violation. Once the investigation is completed, the faculty member must notify the student within two business days. The faculty member will send an “Initial Meeting Letter” to schedule a meeting with the student within two business days of the discovery (completion of the investigation.)

When the student meets with the faculty member, they may bring a support person from the UC community. The support person is present for moral and emotional support, but may not speak during the meeting. Due to the educational nature of the Academic Integrity process, parents, lawyers, and other advocates are not permitted at any AI meeting or hearing. The student will be presented with the evidence of the violation, told
the level of infraction and the sanction for that infraction. Finally, the faculty member should present the “Academic Integrity Violation Form”, request that the student review/sign the document and then provide a copy of the signed document to the student. The faculty member should inform the student of his/her right to appeal the decision. If the student should choose to appeal, he/she should notify the Chair of the Academic Integrity Review Board (AIRB) in writing within two (2) business days of the meeting. If the student does not appeal within two (2) business days, the decision will be upheld and the infraction/sanction will be recorded. The Chair of the AIRB will then notify the Reference and Instruction Librarian of the sanction within two (2) business days.

Appeal Process

During an appeal process, the student should continue to attend class until a decision is rendered. The Academic Integrity Review Board will oversee the appeal hearings for all undergraduate students and graduate students from the School of Business, the School of Arts and Sciences and the School of Health Sciences. The board will be made up an Academic Integrity Review Board Chair (non-voting member appointed by the Provost) along with six voting faculty members; two faculty from the School of Business (one undergraduate and one graduate faculty), two faculty from the School of Health Sciences (one undergraduate and one graduate faculty) and two faculty from the School of Arts and Sciences. The voting members will be appointed by the Dean of each school.

Eligibility for an Appeal

Students have the right to appeal an initial Academic Integrity sanction, if any of the following conditions are met:

- A material and prejudicial deviation from the procedures adopted by the Academic Integrity Policy;
- Sanctions that are disproportionately severe or inappropriate for the Academic Integrity Violation;
- Or new evidence is present that could change the violation or sanction.

Appeal Deadline

The request for an appeal must be filed in writing, to the Chair of the Academic Integrity Review Board within two (2) business days of the receipt of the administrative sanction letter. The appeal request should include:

- Name and student I.D. number
- Date of notification of Academic Integrity Sanction
- Circumstances which the student feels sanction should be reviewed

Review of Appeal

- The Chair of the Academic Integrity Review Board shall review the request and notify the student of the decision to hear or not hear the appeal. If the appeal will be heard, the Chair of the AIRB will notify the student and the AIRB Committee of the appeal date, time, and location to review the Academic Integrity case in question if one or more of the conditions have been met. The appeal shall take place within a reasonable time period, not to exceed ten (10) business days after the date of the student’s request for appeal.
- Following the appeal process, the Chair of the AIRB will notify the student of the Committee’s decision, and this decision will serve as the concluding administrative action regarding the violation, except when expulsion is warranted.
Appeal Hearing Procedure

The hearing shall be informal and the chair shall provide reasonable opportunities for the witness(es) to be heard. The hearing shall be closed due to the educational nature of the Student Expectations and Accountability Standards, except that, with the consent of the student regarding his or her support person who is a member of the university community. Parents, guardians, lawyers, and other advocates are not permitted at any hearing. The Committee shall proceed as follows during the hearing:

1) The chairperson shall read the alleged Academic Integrity violation.
2) The chairperson shall inform the student of his or her rights.
3) The reporting faculty member or their designee shall present the University’s case.
4) The student shall present the student’s response.
5) The chairperson shall open the floor for Committee members to inquire information from either the student or the faculty member or designee who originated the Academic Integrity Violation.
6) At the conclusion of inquiry, student shall summarize his or her case.
7) The Committee shall meet alone to deliberate the case. The Committee shall vote on the issue of whether the student violated the Academic Integrity Policy.
8) Based on a majority vote, if the Committee finds the student in violation of the policy, the Committee will determine the appropriate sanction (the chairperson shall be a non-voting member of the Committee, except in the case where a majority vote cannot be achieved due to a voting tie).
9) The chairperson shall inform the student of the committee’s decision and sanction, if any, immediately following the appeal hearing.
10) Regardless of the decision, the Chair will notify the Reference and Instruction Librarian of this decision within two (2) business days.

Evidence

Legal rules of evidence shall not apply to any Academic Integrity hearing administered by the University. All decisions by the Committee shall be based on the preponderance of the evidence. The Committee shall exclude irrelevant, immaterial, and unduly repetitious evidence. Committee members may freely question witnesses; however, Committee members are not subject to questioning. The Committee shall start with the presumption no violation has occurred and will make its decision based on the preponderance of the evidence presented. All evidence shall be offered to the Committee during the hearing and made part of the hearing record.

Record

The hearing record shall include:

- A copy of the notice of appeal hearing.
- All documentation and other evidence offered or admitted at hearing.
- The Committee’s decision(s).

If the violation is a minor or standard infraction, three (3) out of six (6) voting members from the committee will meet with the student, review the appeal and decide whether to uphold the faculty member’s decision or to reverse the decision. The committee’s decision will be based upon the majority. The student will be notified of the decision by the chair of the Academic Integrity Board or his/her designee. If the minor decision is upheld, the infraction/sanction will be recorded in the student’s record. If the
decision is reversed, the student’s record will reflect the reversal. If the standard decision is upheld, the infraction will be recorded and the student will receive an “F” in the course if it is the student’s first standard violation or an “FX” in the course if it is the student’s second or third standard violation. If the decision is reversed, the student’s record will reflect the reversal and the grade will be recorded by the faculty member as stated in the syllabus.

If the violation is an egregious infraction, all six (6) voting members from the committee will review the appeal and decide whether to uphold the faculty member’s decision or to reverse the decision. The committee’s decision will be based upon a majority. The student will be notified of the decision by the chair of the Academic Review Board or his/her designee. If the decision is upheld, the infraction will be recorded, the student will receive an “FX” in the course and the student will be recommended by the Academic Integrity Review Board for expulsion from the university. The chair of the committee will notify the Provost in writing and the final decision for expulsion will be made by the Provost and/or President. If the decision is reversed, the student’s record will reflect the reversal.

Note on Timing:

It is recognized that there may be times that, due to scheduled breaks, the precise schedules indicated in the preceding paragraphs may not be achievable. In such cases, all participants must make good faith efforts to come as close to the schedules as possible. Hearings for alleged integrity violations that occur at the end of the spring semester present special challenges. For returning students, the schedule in the preceding paragraphs will remain in effect. Students suspected of violating academic integrity must work with faculty to attempt to resolve the integrity issue within two (2) weeks of the last official day of the semester or wait until the beginning of the following semester to seek resolution. For a graduating senior suspected of violating academic integrity, he/she may walk at graduation if all other academic requirements have been met, but he/she will not receive a diploma until the integrity matter has been resolved.
TECHNOLOGY SUPPORT SERVICES

Scott Terry, Chief Information Officer

Help Desk

The University of Charleston Help Desk serves as the single point of contact between students, faculty and staff and the Information Technology Department. The Help Desk staff will assist you with your questions, requests and suggestions or route them to the appropriate area for resolution and provide status of your report. You must be a member of the University of Charleston community in order to take advantage of Help Desk services. Note that the Help Desk support for personally-owned devices (including mobile) is limited to email client setup and network connection.

Audiovisual Services

Audiovisual Services supports the learning process by assisting students, faculty and the public with the equipment and expertise necessary for making presentations or developing multi-media projects. The department also provides services to external groups holding meetings on University of Charleston campuses. AV will need a 48-hour notice to be able to provide the services needed for requests.

For assistance by:

Telephone: Call 1-304-357-HELP (4357) or 1-855-248-3416
Email: Contact help@ucwv.edu
In person: Visit the Help Desk - location: Clay Tower Building, 2nd Floor, Schoenbaum Library

The Help Desk is open five days per week when classes are in session. It is closed during University holidays and for other official University closures such as emergencies and severe weather.

Help Desk Hours – Classes in Session:
Monday – Friday, 7:00 AM to 8:00 PM

Help Desk Hours – Classes Not in Session:
Monday - Friday, 7:00 AM to 6:00 PM

For computer issues outside the Help Desk hours, please use the online ticket system or send an email to help@ucwv.edu. You will receive a response to your question as soon as possible when the Help Desk reopens.

Contact the Help Desk if you:

• Are having trouble with any of your accounts
• Need access to files or printers
• Cannot connect to the network or something on your computer isn't working properly
• Would like to know about options for sharing files, email, or calendars
• Need to purchase software or equipment
• Need service or advice about your personal computer or safe computing practices
• Think you have a virus or other computer problem
• Want to report a problem or place a request concerning a campus telephone
• Having a computer problem in a campus lab or classroom
• Have questions about software licensing or availability
• Have a computing need and don't know who to ask or where to begin

Need Additional Information
• Classroom technology support
• Campus telephones and voicemail support
• eLearn [Moodlerooms] support
• Report problems with streaming video service

Password Resets

Password Resets are available during all hours of Help Desk operation for College passwords. Any community member can also reset his or her own password at http://my.ucwv.edu, by clinking the Change Password link.
**Center for Career Development (CCD)**

*L. Travis Kahle, Director*

**About the Center for Career Development**

The Center for Career Development (CCD) assists undergraduates, graduates and alumni to achieve their professional goals through assessment, self-awareness, career coaching, and educational events that encourage lifelong professional preparation and career readiness. The CCD, in conjunction with faculty members across the various programs of study, designs services and programs to help students develop competency across six vital areas of professional development:

- **Applied Learning** - Internships and related experiential activities that help students connect classroom learning with real-world situations
- **Mentorship** - Opportunities to gain knowledge and seek feedback from experienced professionals, as well as the opportunity to share knowledge with less experienced peers
- **Certifications** - External designations that demonstrate expertise in a specific industry or area of knowledge
- **Leadership and Networking** - Participation in events and active involvement in organizations on and off campus in which students can practice leadership and build professional networks
- **Exploration and Development** - Assessments, workshops, and individual coaching designed to help students discover professional areas of interest, build confidence, and develop essential career readiness skills
- **Innovation** - Projects and activities that build creativity, critical thinking skills, and entrepreneurial acumen

**Mission**

The mission of the Center for Career Development is to prepare students for career attainment, career advancement, and community involvement while effectively meeting the challenges of today’s workplace as enlightened citizens.

**Services and Resources**

The CCD provides an array of services and resources to 1) address the professional preparation areas described above, and 2) assist students in locating and obtaining employment opportunities. While many classes integrate CCD activities into the curricula, it is highly encouraged for students to make individual appointments with the CCD in their freshman year to begin developing personalized career plans. CCD services include the following:

- **Individual Career Coaching** – By appointment or during walk-in hours, the CCD provides assistance with choosing a major, making career choices, devising a job search plan, resume development, interviewing, and applying to graduate school.
- **Career Seminars & Workshops** – A variety of seminars and workshops are offered to students throughout the year. Topics include resume and cover letter development, interview skills, job search strategies, professional networking, and applying to
graduate school. The CCD also holds workshops on leadership, etiquette, and communication.

- **SIGI³** – SIGI³ includes personality and career assessment tests that offer guidance on choosing a major or an occupation. It contains extensive information about hundreds of occupations that relate to the majors offered at UC. SIGI³ can be found at www.ucwv.edu/ccd.

- **Resume Center** – The Resume Center houses guides and instructional videos on building resumes and cover letters. The Resume Center can be found on the Student Portal under the Center for Career Development page.

- **Handshake** – Employers regularly post full-time, part-time, and internship opportunities via the CCD online job board, Handshake. All students and alumni have access to Handshake. Handshake is also used for event registration and the distribution of surveys relating to CCD areas of interest. Handshake can be found at ucwv.joinhandshake.com.

- **Quinncia** – Quinncia is an artificial intelligence (AI) software system that provides resume reviews and realistic mock interviews for students. It can be used as a self-service resource by students or a classroom resource by faculty. Quinncia allows students to receive immediate feedback on resumes and interview skills if they are unable to wait for an individual coaching appointment with CCD staff for any reason.

- **Career Fairs** – The CCD organizes career fairs for all majors in the fall and spring. Students can learn about different employers and obtain information on full-time, part-time, temporary, and internship opportunities.

- **Graduate School and Study Abroad Fair** – For students seeking graduate programs and study abroad opportunities, the CCD conducts a graduate school and study abroad fair in the fall. Representatives from several graduate schools throughout the region attend, as well as providers of study abroad experiences.

- **Career Development Week** – Each February, the CCD hosts a week-long series of career workshops and seminars presented by business professionals from the Charleston area and beyond. Topics include networking, business etiquette, interviewing, resume writing and maintaining a professional online presence.

- **Etiquette Dinner** – Students are nominated by faculty members to attend this formal dinner and etiquette workshop. Local employers and alumni are invited to network with students.

- **Employer Presentations** – Information sessions are provided by HR professionals so that students have opportunities to learn about the companies and their job opportunities. The CCD also works with instructors to organize company presentations in the classroom.

- **Alumni Assistance** – Alumni are encouraged to use the CCD for employment assistance, accessing professional development resources, or posting job opportunities for their organizations at no cost.

- **Graduate Studies** – The CCD provides information and resources on graduate education at UC and beyond.

**Internships**

UC encourages all students to complete an internship before they graduate, and some programs require internship hours (see the individual program requirements for more
information). The CCD can provide guidance to students on locating internships and ensuring that internships comply with program requirements if using the internship for academic credit. Academic credit is granted at the rate of 1 credit hour per minimum of 40 hours worked. Individual academic programs may require students to work more than 40 hours to obtain one academic credit hour. The grade for the internship will be determined by the supervising faculty member. Some instructors utilize a pass/fail system while others use letter grades.

When doing internships for academic credit, students must complete the Internship Learning Agreement with the supervising faculty member, the CCD, and their employer. The Learning Agreement connects job duties to academic outcomes to validate academic credit. At the conclusion of the internship, the employer must complete the Internship Evaluation Rubric. The CCD will maintain copies of the Learning Agreement and Evaluation.

**Study Abroad Programs**

Students who wish to participate in study abroad programs must register with the CCD. The CCD can provide resources on destinations and programs through an approved list of third-party providers. Students should consult with their academic advisor and the financial aid office before making a final decision on which study abroad program to pursue. Scholarships and financial aid applied to UC classes may not be applicable to study abroad programs. The transfer of study abroad credit to UC must be approved by the academic advisor and University Registrar before the student departs for the program.

**Commitment to Students and Community**

The CCD is committed to providing students with the best resources available to enhance professional preparation and career readiness. The CCD staff works with faculty members, alumni, employers, and community leaders to generate high quality opportunities for students. In turn, the CCD is committed to making the greater Charleston community a more vibrant and prosperous area by enabling students to become involved with local employers and organizations.
The mission of the Academic Success Center is to help students connect with academic resources as well as disability and testing services to become successful productive citizens who work toward a lifetime of enlightened living and worthwhile community involvement.

TUTORING

Peer Tutoring

- **Discipline-specific Tutoring:** Peer tutoring is available in a variety of subjects including math, science, economics, accounting, nursing and radiology. Tutors can also assist with study skills and test-taking strategies.

- **Writing Tutoring:** For students who need tutoring specifically in writing, peer tutors are available to help generate, organize, and develop ideas for papers. Tutors can also explain punctuation and grammar, as well as teach students how to proofread, document secondary sources, and address a host of other writing-related issues. Additionally, tutors are trained to assist students with the COMM 101 and 102 portfolios. Our goal is to provide quality assistance, tools, and resources to help students become confident, independent writers.

*Subjects and scheduling for peer tutoring vary by location, according to students’ needs and the availability of qualified tutors. For more information see the [Academic Success Center tutoring webpage](#) or contact the ASC at (304) 347-4776.

Online Tutoring

All UC students have access to the Smarthinking online tutoring tool. For students enrolled in online programs or in programs offered at the Beckley campus, there is no fee for utilizing this service. Students enrolled in in-seat programs offered on the Charleston campus may purchase online tutoring at a discounted rate.

Online tutoring is provided in the following formats:

**Live, On-Demand Tutoring:** Using an advanced queuing system, students are connected on-demand with an expert educator. Students work one-on-one, in real time with a tutor, using the virtual whiteboard technology.

**Online Writing Lab:** Students can submit a paragraph or essay for individualized critique by expert writing tutors. Students complete a form that provides the tutor with information on the writing assignment and requested areas of assistance, then receive the help that they need with the writing assignment. Students can also request a review by an ESL (English as a second language), technical writing or creative writing expert when appropriate. Upon completion, students are notified that their review is available. Students receive feedback outlining the strengths, areas in need of improvement, and specific guidance to help them improve the quality and content of their writing.
Submit a Question: Students who do not need instant feedback can choose to submit an asynchronous question. Using the virtual whiteboard technology, students submit their question to a tutor and the student is notified when their comprehensive response is available.

Schedule an Appointment: Students who prefer to plan ahead can schedule a 30-minute appointment with a tutor of their choice. At the scheduled time, the student and tutor connect live using the virtual whiteboard technology.

*Hours allotted to students may vary by location. For more information see the Academic Success Center tutoring webpage or contact the ASC at (304) 347-4776.

STANDARDIZED TESTING SERVICES

The University of Charleston offers a variety of standardized tests for UC students in Charleston. Tests offered include:

- CLEP* (computer-based exams that allow students to prove mastery of college-level material in introductory subjects and earn college credit)
- DSST* (computer-based exams that allow students to prove mastery of college-level material in introductory subjects and earn college credit)
- TEAS (Test of Essential Academic Skills for entrance into nursing school)
- PRAXIS (exams measuring teacher candidates' knowledge and skills, used for licensing and certification processes.)

*DANTES funding for service members is available for these exams

For more information about standardized testing see the ASC’s Standardized Testing Services webpage.

SERVICES FOR STUDENTS WITH DISABILITIES

The University of Charleston is committed to achieving equal opportunity for participation in all programs, services and activities. The Disability Services Coordinator works in collaboration with a variety of University offices (Housing, Dining Services, and the Department of Information and Instructional Technology) to ensure that individuals receive reasonable accommodations for documented disabilities in compliance with provisions in the Americans with Disabilities Act and the Section 504 of the Rehabilitation Act.

Individuals with requests for accommodations for documented disabilities are encouraged to contact the Disability Coordinator as soon as possible.

Disability Services Coordinator
Allison Grassie, Director of the Academic Success Center
allisongrassie@ucwv.edu
(304) 347-6983

The University of Charleston pledges to abide by the following policies mandating accessibility in physical and digital environments.

- Prohibits discrimination against individuals with a disability.
- Applies to everyone: faculty, staff, employees, student employees, students, and applicants.
- Requires reasonable accommodations be provided to ensure access to classes, events, and related curricular activities.

Section 508 - Technology Access

- All electronic and information technology must be accessible to people with disabilities.
- Students with disabilities must be able to access computer hardware and software, web pages and the Internet, CD/DVDs, video/audio teleconferencing, etc.

Section 504 of the Rehabilitation Act

Civil rights legislation that is applicable to all universities that receive federal funding. It states: "No otherwise qualified individual with a disability in the United States…shall, solely by reason of her or his disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance…"

Accommodations for Individuals with Disabilities

The following information and a step-by-step procedure for students applying for accommodations can be found on the Academic Success Center website at Services for Students with Disabilities.

What are accommodations?

Accommodations are adaptations and changes made to elements of a student's postsecondary program that help to compensate for the student's impairment(s) and provide equal access to students with disabilities. Here are the basics:

- Any student with a documented disability may be eligible to receive accommodations & services from the Academic Success Center.
- The purpose of accommodations and modifications is to reduce or eliminate any disadvantages that may exist because of an individual's disability.
- Accommodations are not a guarantee for success, but rather seek to promote non-discrimination and equal access opportunities.
- Accommodations are not student preferences; they are determined through an established review process based on documentation received regarding the student's disability.
- The law does not require institutions to waive specific courses or academic requirements considered essential to a particular program or degree. Rather, they are mandated to modify existing requirements on a case-by-case basis in order to ensure that individuals are not discriminated against on the basis of their disability.
- In order to access accommodations, students must disclose their disability to the Academic Success Center and state their requested accommodations.
Expectations and Key Participant Roles in Accommodation Process

It is important for the student, the faculty member, and the disability coordinator to be clear about their roles in the accommodation process. The roles of each participant in this process are as follows:

Student Role

• Provide medical and/or psychological documentation to the disability coordinator
• Participate in process of determining and implementing reasonable accommodations
• Inform the disability coordinator when accommodations are not working, need to be modified, or symptoms change

Faculty Role

• Referral to the Academic Success Center
• Participate in process to determine and implement reasonable accommodations
• Identify essential course components for accommodations to be determined
• Request assistance (From the disability coordinator) with accommodation, implementation, or consultation

Disability Coordinator Role

• Maintain medical/psychological documentation in a confidential manner
• Determine if condition(s) are a disability in accordance with state and federal laws
• Identify and assist with implementation of reasonable accommodations
• Request updated documentation when symptoms change to determine if accommodations need to be modified
• Provide information and referral to university and community resources to resolve disability-related issues

*Adapted from the Association on Higher Education and Disability

The University, recognizing that disclosure of a disability is a personal and private decision, relies on individual with the disability to self-identify; the University makes no preadmission inquiries about disabilities. All documentation is held in the strictest confidence and is not shared with other University offices without the consent of the student.

SERVICE ANIMAL POLICY

The University of Charleston recognizes that service animals perform a necessary service in assisting and accompanying you. We understand that your service animal is a working animal and will make every effort to educate the university community about the animal’s service to you and provide the accommodations afforded a service animal.

The University of Charleston expects the partner/handler to be responsible for ensuring the safety of his/her service animal. While legal access rights are afforded users of assistance animals, the partner/handler has the responsibility of ensuring that the animal behaves and responds appropriately at all times in public. The animal and the partner/handler, as a team, must adhere to the same socially accepted standards as any individual in the university community.
Definitions:

- **Animal in training:** an animal undergoing training to become a service animal. An animal in training has the same rights as a fully trained animal when accompanied by a trainer and identified as such.

- **Partner/Handler:** a person with a service or therapy animal. A person with a disability is called a partner; a person without a disability is called a handler.

- **Service Animal:** any animal individually trained to do work or perform tasks for the benefit of a person with a disability.

- **Team:** a person with a disability or a handler and his/her service animal. The two work together as a team in accomplishing the tasks of everyday living.

- **Therapy Animal:** an animal that does not assist an individual with a disability in the activities of daily living. These animals are not protected by the laws for service animals.

Types of Service Animals:

- **Guide Animal:** an animal carefully trained to serve as a travel tool by individuals who have severe visual impairments.

- **Hearing Animal:** an animal trained to alert a person with a significant hearing loss when a sound, e.g., knock on the door, occurs.

- **Service Animal:** an animal trained to assist a person who has a mobility or health impairment. Types of duties the animal may perform include carrying, fetching, opening doors, ringing doorbells, activating elevator buttons, steadying a person while walking, helping a person up after the person falls, etc. Service animals can sometimes be called assistance animals.

- **SSIG (Sensory Signal) Animal:** an animal trained to assist a person with autism. The animal alerts the partner to distracting, repetitive movements common among those with autism, allowing the person to stop the movement (e.g., hand flapping). A person with autism may have problems with sensory input and need the same support services from an animal that an animal might give to a person with visual or hearing impairments.

- **Seizure Disorder Animal:** an animal trained to assist a person with a seizure disorder. The methods the animal uses to serve the person may vary, depending on the person’s needs. The animal may stand guard over the person during a seizure, or the animal may go for help. A few animals have somehow learned to predict a seizure and warn the person in advance.

**Long-Term versus Short-Term Use**

Students desiring to use a service animal on campus should first contact the Disability Coordinator to register as a student in need of an accommodation. The Disability Coordinator will evaluate the documentation of the student’s condition, determine if a disability exists, and discuss with the individual any accommodations appropriate to the functional limitations of the disability.

**Documentation and Requirements**

**Documentation:** The handler/partner requesting accommodations for a service animal must provide documentation from an appropriate, licensed professional of his/her need
for the service animal. The partner/handler of the service animal must provide proof, which will be kept on file in the Academic Success Center, that the animal has met the following requirements:

Documentation deadlines to request an assistance animal to reside in on campus housing:

For new students:

- Fall semester housing: August 1
- Spring semester housing: December 1

For returning students:

- Fall semester housing: March 1
- Spring semester housing: December 1

*Training:* The partner/handler must provide documentation that the service animal has undergone training to be a service animal.

*Licensing:* The animal must meet City of Charleston licensing requirements and wear the tags designated by the City of Charleston if the animal resides on the University of Charleston campus. If, however, the service animal accompanies a commuter student and resides in a different locale, the animal must meet the licensing requirements of the student’s resident town and wear the tags designated by that community.

*Health Records:* The animal must have a health statement, including vaccinations against diseases common to that type of animal, from a licensed veterinarian dated within the past year. Annual updates must be provided. The animal must be well groomed, and measures should be taken at all times for flea and odor control. Consideration of others must be taken into account when providing maintenance and hygiene of service animals.

*Control Requirements*

The service animal must be on a leash or other restraining device at all times. Also, the service animal must wear a collar or harness identifying it as a service animal.

The partner/handler must be in full control of the service animal at all times. The care and supervision of the service animal is solely the responsibility of its partner/handler.

*Service Animal Etiquette*

The service animal must adhere to the following rules at all times:

- Not be allowed to sniff people, store shelves, eating tables, or personal belongings of others;
- Not initiate contact with someone without the direct permission of the partner/handler;
- Not display any behaviors or noises that are disruptive to others, such as barking, whining, growling, etc.
- Not block aisles or passageways; and
- Be trained to not be attracted to food in common areas.
Students/staff/faculty/administration must adhere to the following rules at all times:

- Not to pet a service animal that is working. Service animals are trained to be protective of partners/handlers, and petting the service animal distracts the animal from its responsibilities;
- Not feed a working service animal. The animal may have specific dietary requirements. Unusual food and/or an unexpected time may cause the animal to become ill;
- Not deliberately startle, tease, or taunt a service animal;
- Not separate or attempt to separate a service animal from its partner/handler;
- Not hesitate to ask a student if he/she would like assistance if the team seems confused about a direction, an entrance, location, etc.; and
- Not give a service animal alcoholic beverages or illegal narcotics on or off campus. To do so will result in disciplinary action through the Office of Student Leadership and Engagement.

**Conflicting Disabilities**

Some people may have a disability that is precipitated by an allergic reaction to animals. Persons with asthma/allergy/medical issues who object to the presence of the animal must register their objections with the Disability Coordinator. The person making the objection must provide verifiable medical documentation to support his/her claim(s). Action will be taken to consider the needs of both persons to resolve the conflict as efficiently as possible.

**Residence Halls**

The guidelines for conflicting disabilities apply in the residence halls also. If there is an allergy/animal conflict within a residence hall that cannot be resolved agreeably, the Director of Residence Life, the Dean of Students, and the Disability Coordinator will collaborate on a solution.
INTERNATIONAL AND ENGLISH AS A SECOND LANGUAGE PROGRAMS

Violetta Petrosyan, Director

The Department of International and ESL Programs seeks to engage and support international students, provide opportunities for all University of Charleston students to have multicultural experiences, and promote the exchange of educational and cultural ideas.

The Department of International and ESL programs, which is described further in the section of this Academic Catalog “Office of Student Life,” offers significant assistance to international students. Courses offered for students whose first language is not English are described in the Undergraduate Course Listings in the section titled English as a Second Language (ENSL).

English as a Second Language students need to demonstrate achievement of a minimum standard of English proficiency in reading and listening comprehension as well as writing and speaking. Based on documentation submitted to the Admissions Office as well as a diagnostic exam given jointly by the Director of International Programs, students may be placed in the ENSL program at the University of Charleston. No extra fees for these courses will be assessed.

To successfully integrate into the regular curriculum, it is imperative that ENSL students reach a certain standard of English language proficiency. If they fail any of the ENSL courses, they will be required to retake them. Students may retake each ENSL course only once. If a student does not successfully complete the ENSL program, he/she will not be able to continue enrollment at the University of Charleston. Passing a required ENSL course includes attendance as well as adequate performance.

Completion of the ENSL program includes the following:

- **ENSL 096** – Advanced English with a grade of pass or fail unless the student was not required to take this course based on a diagnostic evaluation by the ESL Program Director.
SCHÖENBAUM LIBRARY

John Adkins, Director of Library Services

The ability to efficiently locate and critically evaluate information is an indispensable skill for the 21st century student. University of Charleston library faculty work closely with classroom faculty to ensure that students acquire the information and technology skills they will need to live, work, and participate in an information-based society. Students must demonstrate achievement of these skills to meet the Critical Thinking Liberal Learning Outcomes necessary for graduation.

The Schoenbaum Library is a state-of-the-art facility equipped with wireless networking, a technology-rich classroom and four group-study rooms equipped with whiteboards, network ports and video players.

Student learning is supported by an array of books, journals, and databases. The library has a strong collection of print and electronic resources. The collections include approximately 85,000 books and over 300,000 e-books. Over 45,000 journal titles are available either in print or electronically and are accessible from any web-enabled computer, on or off our campuses. All resources are available to students in Charleston, our Beckley campus, or to online students either electronically or through document delivery services.

The library also boasts several archival and rare book collections, as well as an outstanding collection of art and sculpture by regional, national, and international artists.

A skilled, professional reference staff is available to students during regular library hours. Students can also submit reference questions via e-mail to librarian@ucwv.edu at any time.
OFFICE OF STUDENT LIFE

Ms. Virginia Moore, Dean of Students

The mission of the Office of Student Life is to support all students through co-curricular activities designed to promote individual and professional growth, social responsibility, and leadership development for a life of productive work, enlightened living, and community involvement. The Office of Student Life begins this support by planning and implementing all Orientation programs to the university. New Student Orientation (both in-seat and online) is a vital part of the student’s first-year experience. Students learn about the campus, support services, resources, and the curriculum. Activities are scheduled to help students begin to make friends and feel at home in their new environment.

The first day of New Student Orientation is also the first day of classes for first year students. Students will meet faculty and begin the work of meeting the Liberal Learning Outcomes.

Residence Life and Housing

Residence hall living is an integral part of the student’s collegiate experience. Close proximity to classes, activities and development of lifelong friendships are a few of the benefits of living on campus.

Housing Application

All students who wish to reside on campus must sign a Residence Hall Contract, which is an agreement for the entire academic year for their housing assignment and meal plan. Applications for housing and meal plans are available in the UC Student Portal found under the Housing and Meal Plan link. The link will send students to the Housing Portal.

All students requesting housing must be accepted by the University of Charleston as full-time, registered students or receive written permission from the Director of Residence Life. All freshman and sophomore students are required to live in a residence hall unless their permanent home address is within a 60-mile radius of the University, or they are married, age 21 or older, or a parent/guardian caring for a dependent child. If a student meets one of the qualifying exemptions, he or she must complete an on-campus housing exemption form in the Housing Portal. In addition, all students holding the Edwin H. Welch Colleague Scholarship or Innovation Scholarship are required to live on campus for four years unless they are married or a parent or guardian caring for a dependent child.

A housing application is used to match students with similar interests and values in the housing assignment process. Reciprocal roommate requests are honored when possible, if applications with such requests are returned by the deadline. Housing assignments for freshmen are made by the students themselves after immunization records and health insurance information is received in the Office of Student Life.

Housing Cancellation/Withdrawal

If the application for room assignment is accepted but the student decides not to live in the residence hall, the student must complete the Housing Cancellation Form found in the Housing Portal. The Housing Contract designates conditions for refunds on the room rate and the damage deposit.
Vacations

The residence halls are open throughout the academic year (including Thanksgiving and Spring Breaks) and closed during Winter Break. When a student leaves for the summer months all personal property must be removed from the room.

Meal Plans

All under graduate residential students must purchase a University Meal Plan. Although the residence halls are open for Thanksgiving and Spring Breaks, dining services may be closed and alternative plans for dining should be made by students.

STUDENT REGULATIONS

Students admitted to the University of Charleston must subscribe to the mission and core ethical values of the University. Expectations for student conduct are set forth in the Student Handbook and other official documents, including this Academic Catalog. It is the student’s responsibility to study the Student Handbook and this Academic Catalog carefully, and to become fully acquainted with both the student regulations and the principles and practices regarding student honesty in academic affairs. This publication also contains information on other student services, including motor vehicle privileges, check cashing, student identification cards and insurance.

International and ESL Programs

The Department of International and ESL Programs is committed to promoting the exchange of educational and cultural ideas both at the University of Charleston and the greater Charleston community. Through the development and offering of programs and services for students and faculty, the department supports the process of internationalizing the campus.

New international students are supported by the Director of International Students, who assists them as they adapt to an American campus as well as a new culture. Additionally, an orientation is provided to international students prior to the fall and spring semesters. Upon arrival, international students take a diagnostic English examination and are placed in English as a Second Language (ESL) courses as deemed necessary for their academic success.

All students on campus are welcome to join the Global Student Organization (GSO), which aims to create and promote multicultural experiences on campus and throughout the community. Annual campus-wide international activities include International Education Week in the fall and World Fest in the spring. For more information or questions about international and/or ESL programs at the University, please contact the Director of International Students and ESL Programs at (304) 357-4881.

STUDENT GOVERNMENT ASSOCIATION (SGA)

Each student at the University of Charleston registered for twelve (12) or more credits is encouraged to become active in the Student Government Association, which provides an opportunity for involvement with campus issues and concerns. The SGA expresses student opinions, disseminates information to the student body, provides student leadership and represents the student body at various functions, offering students effective channels of communication throughout the University.

STUDENT ACTIVITIES BOARD (SAB)

The Student Activities Board (SAB) works with the Coordinator of Student Involvement to provide programs of an educational, cultural, and social nature such as lectures, comedy events, novelty artists, and other events to meet the needs and interests
of the student population. Students are encouraged to take an active role in the planning, programming, and participation in these activities. The SAB offers both residential and commuter students an assortment of quality programs that enhance the social and academic aspects of a student’s experience.

**GREEK LIFE**

Greek life at the University of Charleston contributes to the unique experience of student development through the virtues of scholarship, leadership, community service, development of lifelong friendships, and the ideals of each Greek organization. The University of Charleston has one local fraternity, **Tau Omega**, and three local sororities: **Delta Phi Delta**, **Theta Kappa Pi** and **Beta Tau Epsilon**. Greek organizations hold recruitment (rush) during the fall and spring semesters, giving students the opportunity to meet with the Greek organizations and learn more about Greek life and its benefits. Being a Greek promises an active role in campus life and encourages development in leadership roles and teamwork.

**STUDENT ORGANIZATIONS**

The University of Charleston has many diverse and interesting student organizations registered with the Office of Student Life. Current organizations are listed below, and any group of students may form a new organization. The process is simple, and details can be found on the website or in the Office of Student Life.

**ACTIVE UC STUDENT ORGANIZATIONS**

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ATHLETICS AND RECREATION

Dr. Bren Stevens, Director of Athletics

Teams and individuals at the University of Charleston have enjoyed notable successes in athletics, winning conference and regional championships, and advancing to the NCAA national tournament in a variety of sports. During the past few years, a plethora of sports programs have advanced to post-season play in the NCAA national tournament in the sports of soccer, football, basketball, baseball, volleyball, tennis, golf, cross country and softball. The university’s men’s soccer team won the first-ever National Championship in any sport at the University of Charleston in 2017, and the team has advanced to the NCAA II Final Four on four different occasions.

University teams utilize the best athletic facilities available, on and off campus. These include the University of Charleston Stadium, Triana Field, and Appalachian Power Park for baseball and Watt Powell Annex Softball Field. Trace Fork and Schoenbaum Field are utilized for soccer, and outstanding public and private facilities are used for tennis and golf. The Russell and Martha Wehrle Innovation Center is the home for men’s and women’s volleyball, and men’s and women’s basketball. The university will break ground in May of 2019 on the new Welch Athletic Complex, which will bring lacrosse, and men’s and women’s soccer back to campus.

Division II of the National Collegiate Athletic Association (NCAA), and the Mountain East Conference (MEC) govern intercollegiate Athletics at the University of Charleston. Membership in the Mountain East Conference includes the following institutions, UC, WV State, Concord, Glenville, West Liberty, Wesleyan, Wheeling Jesuit, Frostburg State, Notre Dame, Urbana, Fairmont and Davis and Elkins College. The Golden Eagles have won the prestigious “Commissioner's Cup” in 2013, 2015, and 2017. The Mountain East Conference is a part of the Atlantic Region which is comprised of approximately 42 colleges and universities. Additionally, the men’s volleyball program competes at the NCAA Division I level and is a prominent member of the (EIVA).

Men’s Intercollegiate Athletics

Male student-athletes compete in ten intercollegiate sports: baseball, basketball, cross country, football, golf, indoor track, soccer, track and field, tennis, and volleyball. Scholarships are available in all ten sports and are awarded at the discretion of each head coach.

Women’s Intercollegiate Athletics

Female student-athletes compete in ten intercollegiate sports at the University of Charleston: basketball, cross country, golf, indoor track, lacrosse, soccer, softball, tennis, track and field, and volleyball. Scholarships are available in all ten sports and are awarded at the discretion of the head coach.

Cheerleading

The University of Charleston recruits talented individuals for its co-ed cheerleading squad. Interested students should contact the Head Cheerleading Coach for more information. Scholarships are available and are awarded at the discretion of the head coach.
Intramural Athletics

The Intramural sports program provides all students, faculty, and staff opportunities to participate in their favorite sports and activities while at the University of Charleston. Activities for men, women, and coed teams are offered, which include basketball, broomball, flag football, powder puff football, softball, soccer, volleyball, water polo, along with many other challenging events.

Recreation

The Morrison Fitness Center has state of the art cardio machines, along with workout rooms, free weights, and a wide variety of Cybex strength equipment which includes selectorized and plate loaded pieces. Special classes such as Zumba, Yoga and other fitness opportunities are scheduled regularly by the Fitness Center Director. Additional recreation facilities include an auxiliary gymnasium, two handball/racquetball courts, and a boathouse. Facilities are open for the use of students, faculty, and staff with a validated University I.D. card.
NEW STUDENT ORIENTATION

Students begin their academic career at the University of Charleston with Orientation. During Orientation, students begin to make friends and feel at home in a new environment. The Office of Student Life oversees all activities of the orientation process, working with faculty to integrate the curricular and co-curricular elements of the experience.

The first day of New Student Orientation is also the first day of classes for first-year students. The students will meet faculty and begin the work of meeting the Liberal Learning Outcomes. Students are expected to participate in the Summer Orientation and Registration (SOAR) described elsewhere in the Academic Catalog. The two processes work in tandem to orient the student to the academic and practical sides of life at the university.

THE FIRST-YEAR EXPERIENCE

The first-year curriculum at the University of Charleston combines academic coursework with co-curricular and residential life activities to create a rich First Year Experience (FYE).

The student begins his or her liberal arts education and the work of meeting Liberal Learning Outcomes through participation in two or more FYE classes over two or three semesters. Students generally participate in one FYE class in the fall semester and one FYE class in the spring semester. The FYE classes examine the foundations of the Social Sciences, Humanities, and Natural Sciences and serve to build the student’s communication, and critical thinking skills. They also serve to orient students to the scholarly process.

Assignments in the FYE classes are designed to help students meet foundational requirements for achievement of some LLOs. For example, writing assignments successfully completed are designed to fulfill the requirements for foundational Communication (COMM 101 and COMM 102 writing portfolios.)

MENTORS AND MAJOR ADVISORS

Upon enrollment, all new students are assigned to a Freshman Student Advisor (FSA) who will schedule and advise the student throughout their transition to the university. Incoming freshman students are also paired with a faculty mentor, who will also be the UNIV 101/102 instructor. The Mentor serves the student as an informed guide, as an advocate, and as a role model. Incoming students are also assigned a major advisor who provides advice on appropriate coursework or other issues associated with a particular academic discipline or major field of study. The major advisor will change if a student changes his or her major. If the student has not declared a major, the major advisor will be the Discovery Program Director.
UNIVERSITY COURSES

UNIV 101 Orientation to University and UNIV 102 The University Experience are courses designed to help students master the complexities of University life, understand the academic program, and deal with personal and social issues presented by a newly independent living status. Each student meets at least one hour each week with his or her mentor, Living Learning Community, and a peer educator. Peer educators are student leaders selected to assist new students adjust to University life and connect with campus programs and co-curricular activities.

Successful completion of all UNIV 101 and 102 activities and assignments provides students with written, spoken, and other work products that can be used to meet some portfolio requirements for completing Liberal Learning Outcomes for foundational Ethics (UNIV 102) and Oral Communications (SPCH 103).

The UNIV 203 Transitions course is designed specifically to meet the needs of students who do not enter UC as traditional, bachelor-degree seeking freshmen taking courses in-seat at the Charleston campus, including transfer students and students who are online or taking classes at regional locations. Students are introduced to the UC mission and the Liberal Learning Outcomes and are provided with opportunities to demonstrate competency of the LLOs at a foundational level.

University 459 or UNIV 460 Senior Capstone provides a common experience for all UC undergraduates. The course provides the opportunity for the student to synthesize skills and knowledge acquired through fulfillment of the Liberal Learning Outcomes and skills and knowledge acquired through their major field of study and co-curricular programming. The topics in the course may include societal, ethical, regional, national, cultural and disciplinary issues as addressed or analyzed from a multidisciplinary perspective.

Co-Curricular Activities – The Office of Student Life and various campus organizations offer a variety of experiences that support the academic program. Participation in some of these activities may be required for particular courses or programs of study. In some cases, significant participation may be used as evidence that a student has demonstrated one or all of the competencies for a particular Liberal Learning Outcome.

A TYPICAL FIRST YEAR SCHEDULE

The first year’s strong introduction to the liberal arts is accompanied by introductory coursework in the academic discipline or major field. The specific classes will vary from major to major, but a typical schedule will look like the one below.

<table>
<thead>
<tr>
<th>Typical First Year Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>FYE Class</td>
</tr>
<tr>
<td>COMM 101 (Embedded)</td>
</tr>
<tr>
<td>UNIV 101</td>
</tr>
<tr>
<td>Course in Major</td>
</tr>
<tr>
<td>LLO course</td>
</tr>
<tr>
<td>Course in Major</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
</tr>
</tbody>
</table>
COMM 101 and 102 Freshman Writing courses are foundational-level English composition portfolios. There are three ways to demonstrate foundational writing competency:

- Work done in FYE courses may be submitted as a portfolio.
- The COMM 101 and COMM 102 Freshmen Writing courses may be taken as free-standing courses, where competency is demonstrated through successfully completing assignments.
- A student may prepare and submit a portfolio of their writing for assessment. A fee may be charged for the last option. Refer to Policies for Credit for Prior Learning for more information.

SPCH 103 is an oral communication (speech) portfolio. Competency in speech may be demonstrated through:

- Successful completion of speaking opportunities embedded in UNIV 102 / UNIV 203.
- Successful completion of the SPCH 103 course online.

UNIVERSITY OF CHARLESTON HONORS COLLEGE

Prof. Kara Fisher and Prof. Hallie Dunlap, Program Co-Directors

The University of Charleston Honors College is a community of high-achieving students who enter the university with evidence of exemplary high school achievement. The Honors College is open to students from all majors. Incoming freshmen and transfer students who meet the entrance criteria are invited to apply. A second-semester freshman or transfer student with evidence of exemplary first-semester work may petition the program directors for admission into the program.

Criteria for acceptance:

- High School GPA of 4.0 or greater
- Successful individual interview

Structure of the program:

- First year: Honors College Seminar (HNRS 101 and HNRS 102)
- Subsequent years: Six student-initiated projects with individual faculty members focused on the University of Charleston’s mission Projects may be embedded in courses or may be developed outside of structured courses. Projects will be archived in the student’s electronic portfolio (Chalk and Wire).
MORRIS HARVEY SCHOOL OF ARTS & SCIENCES

Dr. Tracy Bradley, Dean

The School of Arts and Sciences provides a solid Liberal Arts education for all students, in addition to major courses of studies in the traditional disciplines. Our mission is to provide a high-quality liberal, scientific, and pre-professional education -- engaging students and faculty in an active search for learning – and to prepare our graduates for a lifetime of productive work, enlightened living and community involvement.

The School of Arts & Sciences is comprised of five Departments:

- DEPARTMENT OF EDUCATION
- DEPARTMENT OF DATA AND COMPUTER SCIENCE
- DEPARTMENT OF HUMANITIES
- DEPARTMENT OF NATURAL SCIENCES
- DEPARTMENT OF SOCIAL SCIENCES

The School offers programs leading to the Bachelor of Arts or Bachelor of Science degree. Requirements for these degrees can be found in the program descriptions that follow.

The School has majors in the following areas:

- APPLIED COMPUTER SCIENCE
- ART
- BIOLOGY
- CHEMISTRY
- COMMUNICATION
- CYBERSECURITY & INFORMATION ASSURANCE
- DATA ANALYTICS
- DIGITAL MEDIA DESIGN
- EDUCATION (VARIOUS CERTIFICATIONS)
- ENGLISH
- GENERAL STUDIES
- HISTORY / POLITICAL SCIENCE
- MULTIDISCIPLINARY STUDIES
- POLITICAL SCIENCE
- PSYCHOLOGY

The General Studies and Multidisciplinary Studies programs are Individualized Majors that are designed to meet the needs of students with broad interests or those who have credits from other institutions that do not fit logically into other University of Charleston Majors.

Minors and career concentrations are available in many of these fields. Requirements for majors and minors are detailed in department descriptions.
Mission Statement

The Education Department at the University of Charleston (UC) prepares students who will be committed educators, lifelong learners, and community servants. More specifically, the education faculty provides students with the opportunity to develop the knowledge, skills, and dispositions to become an effective educator.

Education Department programs are delivered at the Charleston campus only.

There are two program tracks that lead to a bachelor’s degree in the Education Department:

Teacher Education Program (certification track):
- Elementary Education (K-6)
- Elementary Education (K-6)/Special Education (K-6)
- Secondary Special Education (5-Adult)

Educational Studies Program (non-certification track):
1. Elementary Studies and Child Development

Admission to the Education Programs

Students who have gained general admission to the University of Charleston and wish to be admitted to the Education Programs take courses during the first two years at the institution to meet Liberal Learning Outcomes and satisfy Education core requirements. To be officially admitted to the Teacher Education Program, the student must:
- Complete 60 credit hours of coursework by the end of the semester in which they apply
- Have a GPA of at least 3.00 in professional education courses, content area, and overall (for students pursuing a teaching certification area degree)
- Have a GPA of at least 2.75 in professional education courses, content area, and overall (for students pursuing Educational Studies)
- Have passing Praxis Core (Reading, Writing and Math) scores on file (or an ACT score of 26 or above or SAT score of 1170 or above) (Not required for Educational Studies)
- Sign the West Virginia Background Check policy statement
- Complete all freshman-level portfolios (COMM 101, 102, 103, UNIV 101, UNIV 102 or UNIV 203 if a transfer student) with passing grades
- Participate in the Admission Process (Panels), which includes an interview conducted by Arts and Sciences faculty, public school educators, and community professionals.
• Submit electronic portfolio prior to panel interview including:
  o Letter of introduction
  o Current resume
  o Sample lesson plan and reflection
  o Philosophy of education
  o One field experience evaluation
  o Professional learning experience reflection
  o Technology work sample and reflection
  o Work sample from an Arts & Sciences course and reflection
  o Work sample connected to ACEI standards (Elementary Education/Special Education) or CEC standards (Secondary Special Education)

More detailed information concerning the Panels Process and Admission Requirements can be found at [http://www.ucwv.edu/Academics/Degree-Programs/Undergraduate-Programs/Education/Program-and-Admission-Requirements/](http://www.ucwv.edu/Academics/Degree-Programs/Undergraduate-Programs/Education/Program-and-Admission-Requirements/)

Upon completion of the Panels Process, students are fully admitted, provisionally admitted, or denied admission to the program. Provisional or denied students have two semesters (including summer) to make up deficiencies. If deficiencies are not taken care of in that time, then students may be counseled or re-advised into other programs.

Eligibility for Student Teaching (certification track) or Internship (non-certification track)

To be eligible to enroll in student teaching or internship, the teacher candidate must meet the following requirements:

a. Receive full admission to the Teacher Education program
b. Submit application approved by the Chair of the Education Department within the six months prior to the planned student teaching / internship experience
c. Submit application for Student Teaching Permit, including fingerprinting and consent to have your fingerprint results submitted to the West Virginia Department of Education (certification track only)
d. Complete a minimum of 96 semester hours of appropriate credit with an overall 3.0 cumulative grade point average (2.75 GPA for non-certification track)
e. Complete at least ¾ of the total course requirements in one’s teaching content area plus EDUC 320 (Integrated Methods)
f. Complete all required professional education and most teaching specialization courses with no less than a 3.0 GPA and replace all D’s, F’s, or I’s with a grade of “C” or better
g. Must have taken and passed the Praxis II subject area content test(s) required for their major (certification track only)

Note: Candidates in either track cannot be enrolled in student teaching or internship and have recorded deficiencies in any academic course work; candidates in the certification track cannot be seeking to retake Praxis Core or Praxis II content exams that were previously failed.

For more information about Student Teaching requirements, see the Education Department website at [http://www.ucwv.edu/Academics/Degree-Programs/Undergraduate-Programs/Education/Program-and-Admission-Requirements/](http://www.ucwv.edu/Academics/Degree-Programs/Undergraduate-Programs/Education/Program-and-Admission-Requirements/)
The Education Department for the University of Charleston is required to meet the Council for the Accreditation of Educator Preparation (CAEP) Accreditation Standards:

- Standard 1: Content and Pedagogical Knowledge
- Standard 2: Clinical Partnerships and Practice
- Standard 3: Candidate Quality, Recruitment, and Selectivity
- Standard 4: Program Impact
- Standard 5: Provider Quality Assurance and Continuous Improvement

The Education Department faculty prepares candidates to meet the West Virginia Professional Teaching Standards (WVPTS):

- Standard 1: Curriculum and Planning
- Standard 2: The Learner and the Learning Environment
- Standard 3: Teaching
- Standard 4: Professional Responsibilities for Self-Renewal
- Standard 5: Professional Responsibilities for School and Community

Education Department Outcomes

The graduate will:

1. Apply and demonstrate discipline specific content knowledge, skills, and practices
2. Apply and creatively demonstrate developmentally appropriate pedagogical knowledge, skills, and practices to prepare K-12 learners for college or career readiness and to promote parental and community involvement.
3. Exhibit appropriate, professional dispositions required of educators
4. Exhibit appropriate professional dispositions and ethical practices required of educators.
5. Demonstrate, analyze, and apply research skills to think critically about their effectiveness and impact on, planning, instruction and assessment for K-12 learners during field work and clinical practice.
6. Pass all necessary Praxis exams and complete all required steps to apply for certification(s) from the WVDE (certification programs only).

Field Experience

All UC Education programs feature a strong field-experience component beginning in the freshman year and culminating with student-teaching or internship. Students are placed in a variety of economically and ethnically diverse school placements featuring urban, suburban, and rural schools.

What You Will Study

Education degrees require at least 120 credits, including 24 credits of Professional Education Core courses, 14 credits of clinical practice component, specified credits of Liberal Learning Outcomes, and a variable (depending on major) number of credits in the student’s chosen content area(s). The State of West Virginia Department of Education and the Education Department requires a minimum of 125 hours of field experience before beginning student teaching.
Teacher Education Majors and Certification Areas
- Elementary Education (K-6)
- Elementary Education/Special Education (both certifications K-6)
- Secondary Special Education (5-Adult)

Educational Studies Majors
- Elementary Studies and Child Development (learning and development for early and middle childhood)

Professional Education Core (Required for ALL programs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 100</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 203</td>
<td>Survey of Students w/Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 204</td>
<td>The Inclusive Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 250</td>
<td>Technology in the Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 299</td>
<td>Theories of Learning and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 311*</td>
<td>Assessment &amp; Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 320*</td>
<td>Integrated Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 212</td>
<td>Life Span Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>24</strong></td>
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</table>

*requires admittance to the Education Department or special permission from the Chair of the Education Department.

Teacher Education Program Clinical Practice Component

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 496</td>
<td>Seminar for Student Teaching/Internship</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Student Teaching in the Content Areas</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
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</table>

or for Special Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDUC 422</td>
<td>Student Teaching in Special Education</td>
<td>6</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Student Teaching in the Content Areas</td>
<td>6</td>
</tr>
<tr>
<td>EDUC 496</td>
<td>Seminar for Student Teaching/Internship</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

Educational Studies Program Clinical Practice Component

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 496</td>
<td>Seminar for Student Teaching/Internship</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 498</td>
<td>Internship in Educational Studies</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

Degree Plans

The degree plans outlined on the following pages list the required courses for each major, with a recommended plan for their accomplishment. Students should work closely with department faculty to assure they are enrolling in needed courses, as not all courses are offered every semester. Degree plans are typically completed in four years, though it is possible to do so more quickly if students have transfer credits or take higher course loads and/or summer classes.

NOTE: These are only plans; students frequently take courses in a slightly different sequence depending upon course rotations, course availability, transfer equivalencies, low enrollment, and/or staffing changes. In addition, students who seek to complete their degree in less than four years must accept responsibility for overload fees and must understand that dropping or failing a course will make early completion more difficult.
These plans are meant as guidelines; students will review degree plans with their advisor twice a year to make sure progress is timely and consistent.

**TEACHER EDUCATION PROGRAM**

**Elementary Education (K-6) – Degree Plan**

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 100 Introduction to Education</td>
<td>EDUC 250 Tech. In the Schools</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>HIST 211 World Cultures I</td>
<td>SPCH 103 Oral Communication Fundamentals*</td>
</tr>
<tr>
<td>HUMN 110 Unheard Voices</td>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>MATH 120 Intermediate Algebra</td>
<td>SSCI 105 Issues in Social Science</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University. Experience</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 16**

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 204 Inclusive Classroom</td>
<td>EDUC 203 Survey Students w/ Exceptionalities</td>
</tr>
<tr>
<td>PSYC 212 Life Span Development</td>
<td>EDUC 299 Theories of Learning &amp; Teaching</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
<td>ENGL XXX Literature**</td>
</tr>
<tr>
<td>HIST 251 Foundations American Rep. OR</td>
<td>MUSC 111 Music Skills for Classroom Teachers</td>
</tr>
<tr>
<td>HIST 252 Contemporary America</td>
<td>MATH 324 Fundamentals of Math Instruction</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 15**

**** Any literature course that has a Creativity mid-level Literature (3.2L) outcome.

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 320 Integrated Methods</td>
<td>EDUC 300 Children’s Literature</td>
</tr>
<tr>
<td>EDUC 311 Assessment &amp; Diagnosis</td>
<td>EDUC 372 Fundamentals of Reading Instruction</td>
</tr>
<tr>
<td>NSCI 205 Issues in Physical Science</td>
<td>EDUC 374 Clinical Practice / Reading Diagnosis</td>
</tr>
<tr>
<td>EDUC 253 Elementary PE &amp; Health</td>
<td>EDUC 316 School Health</td>
</tr>
<tr>
<td>ART 341 Art Education and Instruction</td>
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</tr>
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</table>

**TOTAL CREDITS 16**

### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 378 Elementary Methods</td>
<td>EDUC 497 Student Teaching in Content Areas</td>
</tr>
<tr>
<td>NSCI 206 Earth &amp; Space Science</td>
<td>EDUC 496 Seminar for Student Teaching / Internship</td>
</tr>
<tr>
<td>UNIV 459 Senior Capstone</td>
<td></td>
</tr>
<tr>
<td>GEOG 303 World Geography</td>
<td></td>
</tr>
<tr>
<td>SSCI 310 WV &amp; Appalachian Region</td>
<td></td>
</tr>
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</table>

**TOTAL CREDITS 15**
## Elementary Education/Special Education (K-6) – Degree Plan

### FRESHMAN YEAR

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<tr>
<th>FALL SEMESTER</th>
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<td>UNIV 102 University Experience</td>
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**TOTAL CREDITS 16**

**TOTAL CREDITS 17**

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

### SOPHOMORE YEAR

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<tr>
<td>MATH 116 Survey Math.</td>
<td>EDUC 203 Survey Students w/ Exceptionalities</td>
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**TOTAL CREDITS 15**

**TOTAL CREDITS 15**

**Any literature course that has a Creativity mid-level Literature (3.2L) outcome.**

### JUNIOR YEAR

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<td>EDUC 316 School Health</td>
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<td>EDUC 330 Positive Behavior Supports</td>
<td>EDUC 340 Collaboration in the Schools</td>
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<tr>
<td>ART 341 Art Education &amp; Instruction</td>
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**TOTAL CREDITS 19**

**TOTAL CREDITS 15**

### SENIOR YEAR

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</tr>
<tr>
<td>UNIV 459 Senior Capstone</td>
<td>EDUC 422 Student Teaching in Special Education</td>
</tr>
<tr>
<td>GEOG 303 World Geography</td>
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<tr>
<td>EDUC 360 High Incidence Disabilities</td>
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<tr>
<td>SSCI 310 WV &amp; Appalachian Region</td>
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</tbody>
</table>

**TOTAL CREDITS 18**

**TOTAL CREDITS 14**

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## Secondary Special Education – Degree Plan

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
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<tbody>
<tr>
<td>EDUC 100 Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>3</td>
</tr>
<tr>
<td>HIST 211 World Cultures I</td>
<td>3</td>
</tr>
<tr>
<td>SSCI 105 Issues in Social Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120 Intermediate Algebra</td>
<td>3</td>
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<tr>
<td>UNIV 101 Orientation to University</td>
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<tr>
<td><strong>TOTAL CREDITS</strong></td>
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</table>

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>EDUC 204 Inclusive Classroom</td>
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<tr>
<td>MATH 116 Survey Math</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101 Intro to Psychology</td>
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<tr>
<td>ENGL 202 or 203 (Literature)</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 311 Assessment and Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 320 Integrated Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 330 Positive Behavior Supports</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 333 History of Science</td>
<td>3</td>
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<tr>
<td>NSCI 220 Statistics in Science and Research</td>
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<td><strong>TOTAL CREDITS</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
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<tbody>
<tr>
<td>EDUC 360 High Incidence Disabilities</td>
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</tr>
<tr>
<td>GEOG 303 World Geography</td>
<td>3</td>
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<tr>
<td>SSCI 310 WV &amp; Appalachian Region</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 Senior Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Elective XXX</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>15</strong></td>
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</table>
# Educational Studies Program

## Elementary Studies and Child Development

### Degree Plan (Non-certification Track)

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>EDUC 100 Introduction to Education</td>
<td>EDUC 250 Tech. In the Schools</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing*</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HIST 211 World Cultures I</td>
<td>SPCH 103 Oral Communication Fundamentals*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 110 Unheard Voices</td>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>MATH 120 Intermediate Algebra</td>
<td>SSCI 105 Issues in Social Science</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University Experience</td>
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<tr>
<td>1</td>
<td>2</td>
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</table>

**Total Credits:** 16

**Total Credits:** 17

*These are not separate courses. The outcomes are embedded within HUMAN, NSCI, SSCI, and UNIV courses.

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 204 Inclusive Classroom</td>
<td>EDUC 203 Survey Students w/ Exceptionalities</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 212 Life Span Development</td>
<td>EDUC 299 Theories of Learning &amp; Teaching</td>
</tr>
<tr>
<td>3</td>
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</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
<td>ENGL XXX Literature**</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HIST 251 Foundations American Rep. OR HIST 252 Contemporary America</td>
<td>MATH 116 Survey Math</td>
</tr>
<tr>
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<td>3</td>
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<tr>
<td>MATH 116 Survey Math</td>
<td>MATH 324 Fundamentals of Math Instruction</td>
</tr>
<tr>
<td>3</td>
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</table>

**Total Credits:** 15

**Total Credits:** 15

**Any literature course that has a Creativity mid-level Literature (3.2L) outcome.

#### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 320 Integrated Methods</td>
<td>EDUC 300 Children’s Literature</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 311 Assessment &amp; Diagnosis</td>
<td>EDUC 372 Fundamentals of Reading Instruction</td>
</tr>
<tr>
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<td>3</td>
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<td>NSCI 205 Issues in Physical Science</td>
<td>EDUC 374 Clinical Practice / Reading Diagnosis</td>
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<tr>
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</tr>
<tr>
<td>EDUC 253 Elementary PE &amp; Health</td>
<td>EDUC 316 School Health</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>ART 341 Art Education and Instruction</td>
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**Total Credits:** 16

**Total Credits:** 12

#### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>EDUC 378 Elementary Methods</td>
<td>EDUC 496 Seminar for Student Teaching / Internship</td>
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<td>3</td>
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<tr>
<td>NSCI 206 Earth &amp; Space Science</td>
<td>EDUC 498 Internship in Educational Studies</td>
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<tr>
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<tr>
<td>UNIV 459 Senior Capstone</td>
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<tr>
<td>GEOG 303 World Geography</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>SSCI 310 WV &amp; Appalachian Region</td>
<td></td>
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<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 15

**Total Credits:** 14
Additional Requirements for Teacher Education Programs (Certification)

Students should monitor their programs of study carefully due to ongoing curricular changes in many programs. Due to changes made by the West Virginia Board of Education and West Virginia Department of Education, students may be required to complete additional curricular requirements to obtain their bachelor’s degree and/or teacher certification.

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston.

Students graduating from certification track programs must be eligible for certification in West Virginia to graduate.

Praxis Requirements

Required Praxis exams in certification track programs are associated with particular courses and paid for by vouchers funded through course fees. Students will need to pay out-of-pocket if retakes are required. Study and preparation materials are available both within the Education Department and through the UC library. It is recommended that students also utilize online practice materials available at Learning Express, teacherstestprep.com, or www.ets.org.

Additional Requirements for Educational Studies Programs (Non-Certification)

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston.

Education Department Handbook

The Education Department Handbook (found under the Student Resources tab) is the authoritative document for specific, detailed descriptions of requirements, expectations, and conditions for admission to, participation in, and graduation from the Education Department. Students should consult that document, as well as his or her advisor, for complete information about the Education Department. Specific course requirements for each major are described in the 4-year degree plans above.
DEPARTMENT OF DATA AND COMPUTER SCIENCE

Professor Jennifer Hoffman, Interim Chair

The Department of Data Analytics and Computer Science provides students with the opportunity to acquire the substantive knowledge, technical skills and practical experience necessary for career success in a wide variety of STEM fields. Programs offered in the department emphasize the importance of hands-on learning, including internships.

Majors: Applied Computer Science  
Cybersecurity and Information Assurance  
Data Analytics.

Certificate Program: Coding

APPLIED COMPUTER SCIENCE MAJOR

Professor Jennifer Hoffman, Interim Chair Data and Computer Science

Mission Statement

The mission of the Applied Computer Science program is to provide students with the knowledge and technical skills needed to pursue successful careers in a number of different fields, including software development, network administration, mobile computing and website design.

Employment of computer scientists is projected to grow 24 percent from 2016 to 2026, much faster than the average for all occupations. Software developers and computer scientists will be needed to respond to an increased demand for computer software. In addition, the median annual wage for computer scientists who specialize on the application side was $101,790 in May 2017 and the median annual wage for computer scientists who specialize in systems software was $107,600 in May 2017 (United States Department of Labor, Bureau of Labor Statistics, 2018). Cybersecurity is an increasingly relevant field in today’s world. In her September 2016 remarks, U.S. Commerce Secretary Penny Pritzker indicated that employers nationwide face a shortfall of over 200,000 cybersecurity specialists (United States Department of Commerce, U.S. Census Bureau).

Program Description

The Applied Computer Science major provides students with the knowledge and skills needed to pursue successful careers in a number of different fields, including software development, network administration, mobile computing and website design. The curriculum emphasizes the practical application of the tools and techniques that computer science professionals utilize to identify problems and devise solutions for a wide array of issues relating to information technology, including a strong emphasis on the coding and programming skills that are highly valued by employers. A unique feature of the program is a two-semester field experience where students apply their expertise while working with companies, government agencies and non-profit organizations in the community.
Program Outcomes

The graduate will:
1. Apply knowledge of mathematics and computational theory to analyze problems in computer science and identify and define the resources and requirements needed for their solution.
2. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
3. Recognize and distinguish the mechanisms, components and architecture of computing systems.
4. Employ current techniques, skills, and tools necessary for computing practice, and recognize the need for continuing professional development.
5. Identify professional, ethical, legal, and security issues and responsibilities, and the impact of computing on individuals, organizations and society.
6. Perform successfully on teams to accomplish a common goal and communicate computer science concepts effectively in written and oral form.

What You Will Study

The Applied Computer Science degree program includes 76 credits of academic work, including 7 credits of mathematics, 24 credits of co-op and capstone experience. Students must also complete 44 credits of Liberal Learning Outcomes and electives for a minimum total of 120 credits.

Standard Four-Year Path

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COMM 101 Freshman Writing I*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COSC 100 Introduction to Applied Computer Science</td>
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</tr>
<tr>
<td></td>
<td>HUMN 1XX Humanities FYE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 201 Calculus I</td>
<td>4</td>
</tr>
<tr>
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<td>COSC 102 Coding I</td>
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<tr>
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<td>UNIV 101 Orientation to University</td>
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</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>18</td>
<td>TOTAL CREDITS</td>
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</table>

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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COSC 203 Coding III</td>
<td>4</td>
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<tr>
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<td>COSC 220 Computer Organization &amp; Assembly Language</td>
<td>3</td>
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<td>COSC 280 Applied Data Structures</td>
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<tr>
<td></td>
<td>CHEM 100 or NSCI 117</td>
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<tr>
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</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>16</td>
<td>TOTAL CREDITS</td>
</tr>
</tbody>
</table>
### Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.

### Additional Requirements

- Students must have a 27 ACT math score, or they must have completed MATH 123 before they are able to enroll in MATH 201.
- In order to graduate, a student must receive a minimum grade of “C” for each of the program courses.
- Applied Computer Science majors must meet all University of Charleston graduation requirements and successfully complete the Applied Computer Science Capstone course.

### CODING CERTIFICATE

The certificate is designed to prepare students for employment in the technology sector or for entry into a degree program in Computer Science. The curriculum provides students with basic and midlevel computer programming skills while also providing students with opportunities to apply these skills on real life applications and projects. The certificate will prepare students for a wide variety of career possibilities in a very diverse set of industries and agencies. This includes but is not limited to jobs as, software engineer, application engineer, game designer, technical writer, and programming instructor.

### Curriculum:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COSC 100</td>
<td>Overview of Computer Science</td>
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<tr>
<td>COSC 102</td>
<td>Coding I</td>
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<tr>
<td>COSC 103</td>
<td>Coding II</td>
<td>4</td>
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<tr>
<td>COSC 203</td>
<td>Coding III</td>
<td>4</td>
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<td>COSC 210</td>
<td>Software Engineering</td>
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## JUNIOR YEAR

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSE</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>FALL</td>
<td>COSC 345 Computer Networks</td>
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<tr>
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<td>COSC 360 Website Development</td>
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<td></td>
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<tr>
<td>SPRING</td>
<td>COSC 340 Operating Systems</td>
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</tr>
<tr>
<td></td>
<td>COSC 355 Mobile Computing</td>
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<td>Elective</td>
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<td>COSC 370 Security and Information Assurance</td>
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<td>UNIV 4XX Senior LLO</td>
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<td><strong>TOTAL CREDITS</strong></td>
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## SENIOR YEAR

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSE</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>FALL</td>
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<td><strong>TOTAL CREDITS</strong></td>
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<tr>
<td>SPRING</td>
<td>COSC 450 Applied Computer Science Capstone</td>
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<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
CYBERSECURITY AND INFORMATION ASSURANCE MAJOR
(B.S. in Applied Computer Science)

Professor Jennifer Hoffman, Interim Chair, Data and Computer Science

Mission Statement

The mission of the Cybersecurity and Information Assurance major is to enable students to earn a bachelor’s degree in applied computer science while acquiring the skills and knowledge needed to pursue successful careers in a number of different fields relating to information security.

According to the U.S. Bureau of Labor Statistics (BLS), information security analyst jobs are projected to increase by 37% through 2022, which is much faster than the national average for all occupations. Potential job opportunities include: Information Security Analyst, Information Systems Security Engineer, Intrusion Detection System (IDS) administrator, engineer, or technician, Network Administrator, Computer Crime Investigator, Cyber Trainer, Chief Information Security Officer (CISO).

Program Description

The Cybersecurity and Information Assurance major enables students to earn a bachelor’s degree in applied computer science while acquiring the skills and knowledge needed to pursue successful careers in a number of different fields relating to information security. The curriculum emphasizes the practical application of the tools and techniques that cybersecurity professionals and network administrators utilize to identify security risks and devise solutions. A unique feature of the program is its emphasis on both technical skills and practical management tools which increase the versatility of graduates and their attractiveness to prospective employers in the private sector, government agencies and non-profit organizations. The curriculum also enables students to earn valuable industry-certified security certifications as they complete upper division coursework.

Program Outcomes

The graduate will:
1. Apply knowledge of mathematics, programming, and computer networks to identify cyber security threats and define the resources and requirements needed for their solution.
2. Detect, assess, remediate, and communicate in both verbal and written formats, ongoing cyber security threats and vulnerabilities.
3. Identify professional, ethical, legal, and security issues and responsibilities, and the impact of computing on individuals, organizations and society.

What You Will Study

The Cybersecurity & Information Assurance degree program consists of 76 credits of academic work, including 7 credits of mathematics. Students must also complete 44 credits of Liberal Learning Outcomes and electives for a minimum total of 120 credits.
# Standard Four-Year Path

## FRESHMAN YEAR

<table>
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<tr>
<th></th>
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<th>SPRING SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>3</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>COSC 100 Introduction to Applied Computer Science</td>
<td>3</td>
<td>SPCH 103 Oral Comm. Fundamentals*</td>
</tr>
<tr>
<td>HUMAN 1XX HUMAN FYE</td>
<td>3</td>
<td>COSC 103 Coding II</td>
</tr>
<tr>
<td>MATH 201 Calculus I</td>
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<td>SSCI 1XX Social Science FYE</td>
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<td>COSC 102 Coding I</td>
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<td>MATH 225 Discrete Math</td>
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<td>UNIV 102 University Experience</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 18

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th></th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>COSC 203 Coding III</td>
<td>4</td>
<td>COSC 210 Software Engineering</td>
</tr>
<tr>
<td>COSC 220 Computer Organization &amp; Assembly Language</td>
<td>3</td>
<td>COSC 310 Organization of Programming Languages</td>
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<tr>
<td>COSC 280 Applied Data Structures</td>
<td>3</td>
<td>COSC 315 Intro to Database Systems</td>
</tr>
<tr>
<td>CHEM 100 or NSCI 117</td>
<td>3</td>
<td>ENGL 203 British Lit: Romantic to 20th</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 16

## JUNIOR YEAR

<table>
<thead>
<tr>
<th></th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 345 Computer Networks</td>
<td>3</td>
<td>COSC 340 Operating Systems</td>
</tr>
<tr>
<td>COSC 360 Website Development</td>
<td>3</td>
<td>COSC 355 Mobile Computing</td>
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<td>CYBR 310 Cybersecurity Strategy</td>
<td>3</td>
<td>CYBR 330 Incident Handling</td>
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<td>CYBR 320 Ethical Hacking</td>
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<td>CYBR 340 Security Analysis</td>
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**TOTAL CREDITS** 15

## SENIOR YEAR

<table>
<thead>
<tr>
<th></th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYBR 410 Certified Information Systems Security Professional I</td>
<td>3</td>
<td>COSC 370 Security and Information Assurance</td>
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<tr>
<td>CYBR 440 Advanced Security Trends</td>
<td>3</td>
<td>CYBR 415 Certified Information Systems Security Professional II</td>
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<td>CYBR 450 Cybersecurity Capstone</td>
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<tr>
<td>Elective</td>
<td>3</td>
<td>UNIV 4XX Senior LLO</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 12

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Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.

Additional Requirements

- Students must have a 27 ACT math score, or they must have completed MATH 123 before they are able to enroll in MATH 201.
- In order to graduate, a student must receive a minimum grade of “C” for each of the program courses.
- Applied Computer Science majors must meet all University of Charleston graduation requirements and successfully complete the Cybersecurity Capstone course.
DATA ANALYTICS MAJOR

Professor Jennifer Hoffman, Interim Chair Data and Computer Science

Mission Statement

The mission of the data analytics program is to provide students with the knowledge and skills needed to collect, integrate and analyze complex quantitative and qualitative data.

Demand for individuals with expertise in the field of data analytics is projected to increase significantly over the next decade. A recent study predicts that employment opportunities in the realm of data science will increase by approximately 30% by 2020, especially in the fields of business administration, marketing, finance, insurance, professional services and information technology. Similarly, rapid growth in the areas of telemedical services and health informatics is creating an urgent need for practitioners who possess the knowledge and skills needed to organize, interpret and disseminate the increasing volume and complexity of health data. Beyond this, employment opportunities are beginning to increase in fields such as law enforcement, cybersecurity, urban planning and education as decision makers exploit data mining and predictive analytics to develop proactive solutions for a wide variety of policy issues.

Program Description

The data analytics major is an interdisciplinary program which provides students with the knowledge and skills needed to collect, integrate and analyze complex quantitative and qualitative data. Drawing upon the disciplines of statistics, mathematics and computer science, students will learn how computer programming, database management, data analysis, and data visualization tools can be utilized to collate, interpret and present complex data applicable to a wide variety of fields.

Program Outcomes

The graduate will:

1. Apply data science principles relating to data retrieval, processing, and analysis.
2. Apply mathematical and statistical concepts to detect patterns in data and to draw inferences.
3. Apply critical thinking skills for approaching problems and making assessment decision.
4. Evaluate research results and communicate findings in data science.

What You Will Study

The Data Analytics degree program consists of 45 credits of academic work, including 8 credits of Computer Science, 13 credits of mathematics and statistics, and a 3-credit hour internship. Students must also complete 36 credits of Liberal Learning Outcomes and 39 credits of electives for a total of 120 credits.
# Standard Four-Year Path

## Freshman Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMM 101 Freshman Writing I</strong>*</td>
<td><strong>COMM 102 Freshman Writing II</strong>*</td>
</tr>
<tr>
<td><strong>COSC 101 Introduction to Scientific Programming</strong></td>
<td><strong>SPCH 103 Oral Comm. Fundamentals</strong>*</td>
</tr>
<tr>
<td><strong>HUMN 1XX Humanities FYE</strong></td>
<td><strong>DASC 101 Introduction to Data Science</strong></td>
</tr>
<tr>
<td><strong>MATH 121 College Algebra</strong></td>
<td><strong>SSCI 1XX Social Science FYE</strong></td>
</tr>
<tr>
<td>Elective or 3.2 LLO</td>
<td><strong>COSC 103 Coding II</strong></td>
</tr>
<tr>
<td><strong>UNIV 101 Orientation to University</strong></td>
<td><strong>UNIV 102 The University Experience</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
</tbody>
</table>

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

## Sophomore Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STAT 101 Introduction to Statistics</strong></td>
<td><strong>STAT 120 Introduction to Probability for Data Science</strong></td>
</tr>
<tr>
<td><strong>NSCI 117 or CHEM 100</strong></td>
<td><strong>MATH 230 Linear Algebra</strong></td>
</tr>
<tr>
<td><strong>ENGL 202 Brit. Lit I</strong></td>
<td><strong>BUSI 241 Business Writing</strong></td>
</tr>
<tr>
<td>Elective or 3.2 LLO</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
</tbody>
</table>

## Junior Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DASC 200 Introduction to Data Mining</strong></td>
<td><strong>DASC 310 Introduction to Machine Learning</strong></td>
</tr>
<tr>
<td><strong>DASC 250 Introduction to Data Visualization</strong></td>
<td><strong>DASC 330 Modelling and Simulation</strong></td>
</tr>
<tr>
<td><strong>NSCI 333 History of Science</strong></td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
</tbody>
</table>

## Senior Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DASC 375 Introduction to Natural Language Processing</strong></td>
<td><strong>DASC 475 Data Science Senior Capstone</strong></td>
</tr>
<tr>
<td><strong>DASC 450 Data Science Internship</strong></td>
<td><strong>UNIV 4XX Senior Capstone</strong></td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
</tbody>
</table>
Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.

Additional Requirements

- Students must have a 21 ACT or 540 SAT math score, or they must have completed MATH 120 before they are able to enroll in MATH 121.
- In order to graduate, a student must receive a minimum grade of “C” for each of the program courses.
- Data analytics majors must meet all University of Charleston graduation requirements and successfully complete the Data Science Senior Capstone course.
DEPARTMENT OF HUMANITIES

Dr. Jeannie Dalporto, Department Chair

The Department of Humanities presents students with opportunities to create, design, reimagine and apply their skills and knowledge in innovative ways. The focus of the department is on design and application of design to real-world problems and products. Students will develop capacity for aesthetic response by increasing their understanding of the breadth of human creativity and communication.

The Multidisciplinary Studies and General Studies majors offer students the opportunity to design their own learning experience in an individualized way.

Majors in the Department

ART

GRAPHIC DESIGN CONCENTRATION
STUDIO CONCENTRATION
COMMUNICATION
DIGITAL MEDIA DESIGN
ENGLISH

PROFESSIONAL WRITING CONCENTRATION

MULTIDISCIPLINARY STUDIES – Individualized Major
GENERAL STUDIES – Individualized Major

Minors in the Department

Minors allow the student to develop some special knowledge in a discipline, though not at the depth of the major program in the same field. Minors are available in the following areas:

ART
COMMUNICATION
ENGLISH
GRAPHIC DESIGN
MUSIC

PROFESSIONAL WRITING IN ENGLISH
ART MAJOR

Professor Raymond Yeager, Program Director

From the Faculty

University of Charleston’s Art department offers talented students the opportunity to grow and mature as creative artists and thinkers in a supportive environment that prepares them for careers in the visual arts:

- First-semester program entrance.
- Advanced Placement (AP) credit up to 9 hours may be given to students who have scores of at least three (3) on the appropriate College Entrance Examination Board Advanced Placement Examinations.
- 3-Year BA in Studio or Graphic Design combined with the Entrepreneurship minor. Only one if its kind.
- All studio courses are limited to 15 or less
- 24-hour access to studio classrooms.
- A state-of-the-art digital art lab and Innovation Center.
- Professional networking and contact with prominent artists through regular gallery tours.
- Internships available at UC Communications Department and local galleries and museums.
- Students have had internships at Walt Disney World, Orlando, FL; Clay Center for the Arts and Science of West Virginia, Charleston, WV; Calvin Broyles Jewelers, Charleston, WV; Strategic Marketing International, Charleston, SC.
- Annual department sponsored trips to major museums and art galleries in New York, Washington D. C., Chicago, and Atlanta.

What is unique about the program?

The University of Charleston’s Art program is located on the Charleston campus and offers a 3-year Bachelor of Arts degree in Studio and Graphic Design. This major will equip creative students with the artistic as well as the entrepreneurial skills to strengthen their chances of earning sustainable income and to serve as the principal driving force of their own careers throughout their lives. The purpose of this grouping of courses and intensive, experiential learning experiences is to provide the knowledge and skills needed to create innovative artwork or a creative business. The Art major is an example of the interdisciplinary and creative initiative that illustrates the strong commitment to innovation at the University of Charleston.

Mission Statement

The Art program strives to promote creativity and innovation within the university and educate students to express and communicate their ideas through various visual mediums. It offers students the opportunity to mature as creative artists and thinkers. And prepares them for life-long, professional careers that embody creativity and utilizes innovation to engage and improve communities in society.
Program Outcomes

The graduate will:
1. Apply art fundamentals.
2. Apply technical knowledge, design skills, and conceptual development in one or more media of visual arts.
3. Use visual media for expression.
4. Compose in written and oral form, knowledge of art history and how it has developed over time.
5. Evaluate, reflect upon, and assess the characteristics and merits of personal work and the work of others.
6. Create a body of work that reflects an understanding of professional practices in the field.

Admission Requirements

All students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and Art Program faculty is strongly recommended.

Students may receive up to 9 hours of credit based on the quality of their work. Advanced Placement (AP) credit may be given to students who have scores of at least three (3) on the appropriate College Entrance Examination Board Advanced Placement Examinations. The University of Charleston accepts the following AP tests:

<table>
<thead>
<tr>
<th>AP Test Name</th>
<th>Equivalent UC Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art – History of Art</td>
<td>ART 203 Art History: Ancient to Gothic</td>
<td>3</td>
</tr>
<tr>
<td>Art – General Portfolio</td>
<td>ART XXX – contact Art Program Faculty</td>
<td>3</td>
</tr>
<tr>
<td>Studio: Drawing</td>
<td>ART 100 Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

What Will You Study?

The Art major consists of 45 credits of required Art courses, including 6 credits of Advanced Studio, and 25 credits of electives. Students must also complete 52 credits of Liberal Learning Outcomes for a total of 120 credits. Completion of a minor or a double major in an allied field is strongly encouraged.

<table>
<thead>
<tr>
<th>Graphic Design Concentration Required Art Courses</th>
<th>Studio Concentration Required Art Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100 Drawing</td>
<td>ART 100 Drawing</td>
</tr>
<tr>
<td>ART 105 Design Foundations</td>
<td>ART 105 Design Foundations</td>
</tr>
<tr>
<td>ART 203 Art History: Ancient to Gothic</td>
<td>ART 203 Art History: Ancient to Gothic</td>
</tr>
<tr>
<td>ART 204 Art History: Renaissance to 20\textsuperscript{th} Century</td>
<td>ART 204 Art History: Renaissance to 20\textsuperscript{th} Century</td>
</tr>
<tr>
<td>ART 125 Exploration of 3-D Art Forms</td>
<td>ART 125 Exploration of 3-D Art Forms</td>
</tr>
<tr>
<td>ART 201 Painting</td>
<td>ART 201 Painting</td>
</tr>
<tr>
<td>ART 223 Art History: Modern Art</td>
<td>ART 223 Art History: Modern Art</td>
</tr>
<tr>
<td>ART 250 Photography</td>
<td>ART 230 Graphic Design I</td>
</tr>
<tr>
<td>ART 301 Life Drawing</td>
<td>ART 250 Photography</td>
</tr>
<tr>
<td></td>
<td>ART 301 Life Drawing</td>
</tr>
<tr>
<td><strong>Total credits:</strong></td>
<td><strong>Total credits:</strong></td>
</tr>
<tr>
<td>27</td>
<td>30</td>
</tr>
</tbody>
</table>
### Graphic Design Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 230 Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 330 Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 335 Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ART 340 Typography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credits:** 12

### Advanced Studio Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 305 Studio I</td>
<td>3</td>
</tr>
<tr>
<td>ART 310 Studio II</td>
<td>3</td>
</tr>
<tr>
<td>ART 4XX Senior Special Topics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credits:** 9

### Senior (6 hours)

- **ART 410 Ideas and Practice** 3 (senior requirement)
- **ART 457 Senior Capstone and Exhibit** 3 (senior requirement)

**Total credits:** 6

### Elective

- 3 credits

**Total credits:** 6

### Entrepreneurship minor

- 21 credits

**Total credits:** 69

### Liberal Learning Outcomes credits

- 52 credits

**Total credits:** 52

**Total Program Credits:** 121

### Typical First Year Schedule

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>1</td>
</tr>
<tr>
<td>HUMN 1XX</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I*</td>
<td>3</td>
</tr>
<tr>
<td>ART 100 Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 105 Design Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116 or 121</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 151 Intro to Business</td>
<td>3</td>
</tr>
<tr>
<td>LLO Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 21

#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 102 The University Experience</td>
<td>2</td>
</tr>
<tr>
<td>SPCH 103**</td>
<td>3</td>
</tr>
<tr>
<td>ART 201 Painting</td>
<td>3</td>
</tr>
<tr>
<td>SSCI 1XX or NSCI 1XX</td>
<td>3</td>
</tr>
<tr>
<td>ART 125 3-D</td>
<td>3</td>
</tr>
<tr>
<td>ART 203, or 204 or 223 Art History</td>
<td>3</td>
</tr>
<tr>
<td>COMM 102 Freshmen Writing II*</td>
<td>3</td>
</tr>
<tr>
<td>LLO Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 23

* COMM 101 and COMM 102 are embedded in HUMN 1XX, NSCI 1XX, or SSCI 1XX courses.

*SPCH 103 is embedded UNIV 102
3-Year BA in Studio or Graphic Design with an Entrepreneurship Minor.

The course sequence for completing the 3-year BA in Art with the Entrepreneurship Minor is shown below.

For more information see the entry for the Entrepreneurship Minor.

<table>
<thead>
<tr>
<th>Year 1 – 45 Credits</th>
<th>Year 2 – 39 Credits</th>
<th>Year 3 – 36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
<td><strong>Summer</strong></td>
</tr>
<tr>
<td>1. UNIV 101 Orientation to University</td>
<td>1. UNIV 102 The University Experience</td>
<td>2. ART 250 Photo Online</td>
</tr>
<tr>
<td>2. COMM 101 Freshmen Writing I*</td>
<td>3. SPCH 103**</td>
<td>3.</td>
</tr>
<tr>
<td>3. MATH 116 or 121</td>
<td>3. ART 201 Painting</td>
<td>3.</td>
</tr>
<tr>
<td>4. LLO course</td>
<td>3. SSCI 1XX or NSCI 1XX</td>
<td>3.</td>
</tr>
<tr>
<td>5. HUMN 1XX</td>
<td>3. ART 125 3-D</td>
<td>3.</td>
</tr>
<tr>
<td>6. ART 100 Drawing</td>
<td>3. ART 203, or 204 or 223 Art History</td>
<td>3.</td>
</tr>
<tr>
<td>7. BUSI 151 Intro to Business</td>
<td>3. COMM 102 Freshmen Writing II*</td>
<td>3.</td>
</tr>
<tr>
<td><strong>Total:</strong> 21</td>
<td><strong>Total:</strong> 18</td>
<td><strong>Total:</strong> 18</td>
</tr>
</tbody>
</table>

* COMM 101 and COMM 102 are embedded in HUMN 1XX, NSCI 1XX, or SSCI 1XX courses.
** SPCH 103 is embedded UNIV 102

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
<th><strong>Total Credits for Degree:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Art Elective</td>
<td>3. UNIV 459 or UNIV 460 Senior Capstone</td>
<td>120</td>
</tr>
<tr>
<td>2. ART 410 Ideas and Practices</td>
<td>3. ART 203, or 204 or 223 Art History</td>
<td>3.</td>
</tr>
<tr>
<td>5. Elective</td>
<td>3. ART457 Senior Exhibit</td>
<td>3.</td>
</tr>
<tr>
<td><strong>Total:</strong> 18</td>
<td><strong>Total:</strong> 18</td>
<td><strong>Total Credits for Degree:</strong> 120</td>
</tr>
</tbody>
</table>
Completing a Double Major

Students may also decide to double major in a related field, such as Communication, Psychology, or Business. Consult with program faculty for more information.

Additional Requirements – Art Program Portfolio Reviews

Student portfolios are reviewed during the fourth semester to determine if the student should be allowed to progress into upper-division work. The purpose of review is to determine the quality of work.

There are three possible outcomes of the review:

- **Accept.** The work is considered acceptable and the student may advance in the program.
- **Defer.** Deficiencies must be corrected before the student may advance in the program. The student will develop a plan for improvement under the guidance of program faculty.
- **Probation.** Deficiencies must be corrected, but the student may enroll in advanced studios while they are being addressed. The student will develop a plan for improvement under the guidance of program faculty.

**ART MINOR**

This minor is designed for students who wish to major in another discipline, but desire a minor in art.

**Foundation (9 hours)**

- ART 100  Drawing
- ART 105  Design Foundations or ART 125  Exploration of 3-D Art Forms
- ART 201  Painting or ART 250  Photography

**Studio Elective (9 hours)**

- ART 301  Life Drawing
- ART 305  Studio I
- ART 310  Studio II

**Total Credit Hours for Art Minor: 18 hours**

**GRAPHIC DESIGN MINOR**

This minor is designed for the non-art majors and will enhance students’ ability in any major or discipline that requires them to describe concepts and ideas visually. For example, effectively producing a traditional printed report, a PowerPoint presentation or a web site. Students will gain in-depth experience using industry-standard computer software while acquiring an understanding of graphic design principles and formats. This minor is a great complement to a major in business, marketing, finance, computer science, criminal justice, communication arts (television, journalism, etc.), natural sciences and psychology.

**Foundation (12 hours)**

- ART 100  Drawing
- ART 105  Design Foundations
- ART 230  Graphic Design I
- ART 250  Photography

**Graphic Design (9 hours)**

- ART 330  Graphic Design II
- ART 335  Illustration
- ART 340  Typography

**Total Credit Hours for Graphic Design Minor: 21 hours**
DIGITAL MEDIA DESIGN MAJOR (B.S. DIGITAL MEDIA DESIGN)

Professor Terry Floyd, Program Director

The job market for Digital Media Design graduates is wide open. According to the Bureau of Labor Statistics, the outlook for Web Design and Development, Social Media Developer, Social Media Designer, and Multimedia Designer show a job growth up to 19% through 2026, which is much faster than average. The median pay for jobs in the Digital Media field is $70,000 per year. We are excited to offer students this opportunity in the innovative field of Digital Media Design.

Program Description

The University of Charleston’s Digital Media Design Program is located on the Charleston campus and offers a 4-year Bachelor of Science degree. The program offers students opportunities to learn multiple programs and develop technology for Digital Media such as Web Development, Social Media, Animation and Motion, 3D prototypes, and App Design. Students will collaborate with current majors at UC in studio and classroom settings to develop tangible products. These courses will also take advantage of team teaching and professional mentors to further develop the student’s body of knowledge. The students will have an additional opportunity to serve as Social Media Ambassadors. The Ambassadors will apply what they learn in the Digital Media courses and develop a student-focused social media campaign to highlight student life at UC and the Digital Media Design program. Students will also have the opportunity to join UC’s Innovation student chapter and participate in developing digital workshops for UC and the community. The Digital Media Design program will help students to hone his or her skills in areas of interest such as Social Media Design, Web development, Product Design, and Animation to become a well-rounded UC student and future alum.

Mission Statement

The Digital Media Design program prepares graduates for an entry-level position in the digital media profession. It provides the students opportunities to expand and mature thinking and embodies innovation to engage and improve communities.

Program Outcomes

The graduate will:
1. Develop an understanding of technical knowledge, design skills, and conceptual development in digital media.
2. Apply principles of design, coding, computer techniques, and visual communication.
3. Research, evaluate, reflect, and assess the characteristics and merits of personal work and the work of others.
4. Communicate in written and oral forms knowledge of design and how it has developed.
5. Create a body of work that reflects an understanding of professional practices in the field.

What You Will Study

The Digital Media Design degree program includes 33 to 36 credits of academic work, including 3 credits of mathematics, 8 credits of Computer Science, and 9 credits of Business and Communication. Students must also complete 64 to 67 credits of Liberal Learning Outcomes and electives for a minimum total of 120 credits.
# Standard Four-Year Path

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMDS 101 Intro to Digital Media Design</td>
<td>DMDS 201 Image Manipulation and Web Aesthetics</td>
</tr>
<tr>
<td>DMDS 200 Digital Media and Graphics</td>
<td>ICOM 151 Human Communications</td>
</tr>
<tr>
<td>BUSI 151 Intro to Business</td>
<td>UNIV 102 The University Experience</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>SPCH 103 Speech*</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>SSCI 1XX or NSCI 117</td>
<td>SSCI 1XX or NSCI 117</td>
</tr>
</tbody>
</table>

*These are not separate courses. The outcomes are embedded in HUMN, NSCI, SSCI, and UNIV courses.

<table>
<thead>
<tr>
<th>TOTAL CREDITS</th>
<th>TOTAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMDS 210 3D Design and Product Development</td>
<td>DMDS 301 Ideas and Visualization Studio</td>
</tr>
<tr>
<td>MATH 120 Intermediate Algebra</td>
<td>DMDS 302 Animation, Motion, and Editing</td>
</tr>
<tr>
<td>COSC 102 Coding 1</td>
<td>COSC 103</td>
</tr>
<tr>
<td>LLO/Elective/Minor</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td>LLO/Elective/Minor</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td></td>
<td>LLO/Elective/Minor</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL CREDITS</th>
<th>TOTAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

## JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMDS 310 Social Media and Product Develop.</td>
<td>DMDS 320 User Interface and Web Development</td>
</tr>
<tr>
<td>DMDS 311 Web and Social Media Design</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td>LLO/Elective/Minor</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td>LLO/Elective/Minor</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td></td>
<td>LLO/Elective/Minor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL CREDITS</th>
<th>TOTAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

## SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMDS 410 Digital Media Design Capstone</td>
<td>DMDS 490 Digital Media Design Internship 3 or 6</td>
</tr>
<tr>
<td>ICOM 441 Comm. Law &amp; Ethics</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td>UNIV 459/460 Senior Capstone</td>
<td>LLO/Elective/Minor</td>
</tr>
<tr>
<td>LLO/Elective/Minor</td>
<td>LLO/Elective/Minor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL CREDITS</th>
<th>TOTAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>12 or 15</td>
</tr>
</tbody>
</table>

## Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.

## Additional Requirements

In order to graduate, a student must receive a minimum grade of “C” for each of the program courses. Digital Media Design majors must meet all University of Charleston graduation requirements and successfully complete the Digital Media Design Capstone course and internship.
ENGLISH AND PROFESSIONAL WRITING MAJOR

Dr. Jeannie Dalporto, Program Director

Mission

The mission of the English Program is to give students an overview of the major cultural trends in British, American, and World literature in order to prepare them for a life of enlightened living and productive work; to help students develop sophisticated reading, writing, critical thinking, and research skills in order to prepare them for a life of enlightened living and productive work; and to prepare students to communicate effectively in order to be successful in the community.

English majors will experience the following:

• Opportunities to work on the campus newspaper
• Learn the sophisticated reading and written communication skills increasingly sought after by businesses, graduate schools, law schools, & medical schools.
• Read and interpret works of literature from America, the United Kingdom, and the World.
• Present research at regional & national academic conferences.
• Program design facilitates double majors
• Earn prestigious internships writing & researching for media companies, not-for-profit corporations, newspapers, libraries, and other organizations.
• Explore and become prepared for a variety of career interests, including government, law, businesses, media, teaching, and graduate school.

From the Faculty

“The English major gives students an overview of the major cultural trends in British, American, and World literature. Students develop sophisticated reading, writing, and research skills, preparing them for graduate study in traditional academic programs as well as professional programs like law and, when combined with the appropriate science classes, medicine. Students acquire the intellectual tools to analyze texts within their historical, cultural, and critical contexts, as well as to communicate effectively in writing to a variety of audiences for various purposes.”

Admission Requirements

Students must gain general admission to the University of Charleston. A visit to the campus to meet with Admissions personnel and program faculty is strongly encouraged.

Program Outcomes

The English major has four outcomes. Course requirements are organized under their primary outcome, though many courses deliver more than one outcome. For example, the Survey courses under the first outcome deliver information about texts, contexts and criticism as their primary focus, but students will also perform the reading, interpretation, analysis, and evaluation required by the second outcome.

Graduates with the English major will be able to:

• Identify a wide range of literary texts & periods, including historical and contemporary works by British, American, and World authors, works by female authors, and works by authors of color across several genres.
- Engage in meta-cognition & critical thinking as he or she reads, interprets, analyzes, and evaluates individual works, taking into account the relationships among the text, context, critical context, & sub-text.
- Conduct research (electronic and non-electronic) for the purpose of exploring, documenting, evaluating, and publishing conclusions orally and in writing.
- Communicate effectively to a variety of audiences and in a variety of modes.

What You Will Study
The major in English consists of at least 120 credit hours, including a total of 39 hours in English courses.

Outcome 1: Identify a wide range of literary texts and periods including historical and contemporary works by British, American, and World authors, works by female authors, and works by authors of color across several genres.

Literature Surveys
One each in the British, American, and World literature clusters, plus 3 credit hours of the student’s choosing in one of the clusters.

**British Literature (3 credits)** – Choose one of the following courses:
ENGL 202  British Literature: from Beowulf to 1798........3 credits
ENGL 203  British Literature: Romantics to the Present ....3 credits

**American Literature (3 credits)** – Choose one of the following courses:
ENGL 223  American Literature Survey I.......................3 credits
ENGL 224  American Literature Survey II .........................3 credits

**World Literature (3 credits)** – Choose one of the following courses:
ENGL 230  Western World Literature ..............................3 credits
ENGL 231  Non-Western World Literature .........................3 credits

**Literature Survey Elective (3 credits)** – Choose one of the remaining courses in British, American or World Literature above.

Total: 12 credits

Outcome 2: Engage in meta-cognition & critical thinking as he or she reads, interprets, analyzes, and evaluates individual texts, taking into account the relationships among the text, context, critical context, & sub-text.

**Literature (3 credits)**
ENGL 302  Literary Criticism...........................................3 credits

**Literature Electives (15 credits)** – Choose 5 of the following courses:
ENGL 307  Appalachian Literature.................................3 credits
ENGL 309  Poetry of War..............................................3 credits
ENGL 312  Shakespeare..................................................3 credits
ENGL 320  Multi-ethnic Literature..................................3 credits
ENGL 326  Literature and Gender .................................3 credits
ENGL 330  Studies in Period ...........................................3 credits
ENGL 335  Drama............................................................3 credits
ENGL 336  Literature and Film.........................................3 credits
ENGL 338  Appalachian Folkways.................................3 credits
ENGL 350  Special Topics................................................3 credits
ENGL 360  Harry Potter..................................................3 credits

Total: 18 credits
**Outcome 3:** Conduct research (electronic and non-electronic) for the purpose of exploring, documenting, evaluating, and publishing conclusions orally and in writing.

**Outcome 4:** Communicate effectively to a variety of audiences and in a variety of modes.

ENGL 345 Advanced Writing ............................................ 3 credits

**Writing and Language electives** (3 credits) – Choose one of the following courses:
ENGL 315 Linguistics ..................................................... 3 credits
ENGL 340 Creative Writing ............................................. 3 credits

**Students will also complete a Senior Capstone:**
ENGL 405 Senior Capstone ............................................. 3 credits

**Total: 9 credits**

**Total for the Major: 39 Credits**

**Additional Requirements**
Students must meet all liberal learning outcomes required for graduation by the University of Charleston. Also, students must pass ENGL 405 with a grade of C or better.

<table>
<thead>
<tr>
<th>Typical First Year Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
</tr>
<tr>
<td>NSCI 1XX or SSCI 1XX</td>
</tr>
<tr>
<td>COMM 101</td>
</tr>
<tr>
<td>ENGL 2XX</td>
</tr>
<tr>
<td>HIST 251 Foundations of the American Republic</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>
ENGLISH MINOR

Requirements for the Minor

Interested students may choose to minor in English. The minor in English consists of 18 credits:

British, American and World Literature – (9 credits) - 1 course from each cluster

British Literature (3 credits) – Choose one of the following courses:
- ENGL 202 British Literature: from Beowulf to 1798 .... 3 credits
- ENGL 203 British Literature: Romantics to the Present ... 3 credits

American Literature (3 credits) – Choose one of the following courses:
- ENGL 223 American Literature Survey I ....................... 3 credits
- ENGL 224 American Literature Survey II ....................... 3 credits

World Literature (3 credits) – Choose one of the following courses:
- ENGL 230 Western World Literature ............................. 3 credits
- ENGL 231 Non-Western World Literature ....................... 3 credits

Electives (9 credits) – Choose 3 of the following courses:
- ENGL 302 Literary Criticism ............................................. 3 credits
- ENGL 309 Poetry of War ................................................... 3 credits
- ENGL 312 Shakespeare ..................................................... 3 credits
- ENGL 315 Linguistics ....................................................... 3 credits
- ENGL 320 Multi-ethnic literature .................................... 3 credits
- ENGL 326 Literature and Gender ..................................... 3 credits
- ENGL 330 Studies in Period .............................................. 3 credits
- ENGL 335 Drama ............................................................. 3 credits
- ENGL 338 Appalachian Folkways .................................... 3 credits
- ENGL 340 Creative Writing .............................................. 3 credits
- ENGL 336 Literature and Film ........................................... 3 credits
- ENGL 345 Advanced Writing .......................................... 3 credits
- ENGL 350 Special Topics .................................................. 3 credits
- ENGL 360 Harry Potter ..................................................... 3 credits

Total for Minor: 18 credits

PROFESSIONAL WRITING CONCENTRATION IN ENGLISH

This concentration is designed to help students who want to focus on writing in the professional world. The curriculum draws from English, Public Relations, and Communications classes in order to give students a background in writing in several key professional areas.

Because students will graduate with a BA in English, the faculty believe that having a broad background in literature is necessary, and will help students hone their reading, writing, and research skills.

Required English Core (24 credit hours total)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 English, 1 American, and 1 World literature survey course (3 courses)</td>
<td>9</td>
</tr>
<tr>
<td>3 300-level ENGL electives* (3 courses)</td>
<td>9</td>
</tr>
<tr>
<td>ENGL 345 Advanced Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 405 Senior Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 24
**Writing Concentration (16 credit hours total)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 340 Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 361 Newspaper Practicum</td>
<td>1</td>
</tr>
<tr>
<td>ICOM 221 Journalism</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 325 Feature Writing</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 230 Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 362 Public Relations Writing (Prerequisite ICOM 225 Introduction to Public Relations)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: 16**

*Students are encouraged to select their three 300-level ENGL classes from the following, because of their unique concentration on writing and language:*

- ENGL 315 Linguistics
- ENGL 326 Literature and Gender
- ENGL 307 Appalachian Literature
- ENGL 320 Multiethnic Literature

**Total for Professional Writing Concentration in English: 40 credit hours**

Students are strongly encouraged to pursue an internship during the junior or senior year.

Students are also encouraged to pursue courses in Business and Marketing, depending on their career interests. For example, students may wish to take:

- MRKT 401 Advertising (*Principles of Advertising*). Please note that MRKT 401 has prerequisites of BUSI 150 and MRKT 321.

**PROFESSIONAL WRITING IN ENGLISH MINOR**

Students from other majors may minor in Professional Writing in English by taking the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 345 Advanced Writing</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 221 Journalism</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 325 Feature Writing</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 362 Public Relations Writing</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 230 Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 340 Creative Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credits for a Minor: 18**
The General Studies Major is designed for students who have either completed an extensive number of college-level courses at other institutions that do not fit logically into existing University of Charleston academic majors, or students who want to combine content from existing University of Charleston majors to meet his/her personal educational goals.

The student must make an appointment with the General Studies Program Director to discuss his or her educational goal(s) and determine the student’s area of concentration (contact the Student Solutions center for Program Director contact information).

The General Studies Program Director and the student, in consultation, may select an appropriate Advising Team, including a primary advisor and one or two other faculty. This Advising Team will help the student develop a coherent program of study designed to meet the agreed upon outcomes, and a plan for demonstrating the Liberal Learning Outcomes (LLOs).

Students pursuing this degree option must:

- Have, or must complete, a minimum of 120 credit hours
- Amass a total of 30 upper-division credit hours, 9 of which must be earned during the senior year
- Keep a cumulative University of Charleston grade point average of 2.0
- Declare an area of concentration in consultation with his/her advisor based on the courses the student has taken and goals
- Complete all the Liberal Learning Outcomes
- Successfully complete the General Studies Capstone course.

The area of concentration chosen will determine whether the Bachelor of Arts (BA) or Bachelor of Science (BS) degree in General Studies is awarded.
INDIVIDUALIZED MAJOR – MULTIDISCIPLINARY STUDIES

Professor Hallie Dunlap, Program Director

Often, students possess a broad range of interests that do not fit into a “traditional” major. The MDS is designed so that the graduate can synthesize and apply skills and knowledge from multiple disciplines to address complex issues encountered in society, career and personal life. The area of concentration chosen will determine whether the Bachelor of Arts (BA) or Bachelor of Science (BS) degree in General Studies is awarded.

The MDS degree program consists of a course of study comprised of three academic minors from various disciplines, plus an MDS Capstone course. A variety of predetermined, recommended combinations of specific minors are available to the student. However, the student has the option to make his or her own choice of minors with the guidance of the MDS program advisor.

Examples:
- Political Science / History / Professional Writing
- Entrepreneurship / Business / Professional Writing
- Entrepreneurship / Business / Graphic Design
- Psychology / Criminal Justice / Political Science
- Psychology / Art / History

Students pursuing this degree option must:
- Complete a minimum of 120 credit hours
- Amass a total of 30 upper-division credit hours, 15 of which must be earned during the senior year;
- Keep a cumulative University of Charleston grade point average of 2.0
- Declare an area of concentration based on the courses completed
- Demonstrate achievement of exit-level standard for at least one academic minor
- Complete all UC Liberal Learning Outcomes, AND
- Successfully complete the General Studies Capstone course.

<table>
<thead>
<tr>
<th>Approved Academic Minor</th>
<th>Credits Required for Minor</th>
<th>Approved Academic Minor</th>
<th>Credits Required for Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional Studies</td>
<td>18</td>
<td>Music</td>
<td>23</td>
</tr>
<tr>
<td>Art</td>
<td>18</td>
<td>Political Science</td>
<td>18</td>
</tr>
<tr>
<td>Biology</td>
<td>19</td>
<td>Professional Writing</td>
<td>18</td>
</tr>
<tr>
<td>Business Administration</td>
<td>21</td>
<td>Psychology</td>
<td>18</td>
</tr>
<tr>
<td>Chemistry</td>
<td>18</td>
<td>Sport Business</td>
<td>18</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Design</td>
<td>21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
COMMUNICATION (COMN.BA) MAJOR

Professor Hannah R. Kennedy, Program Director

The Communication program provides a foundation in the study of human communication while integrating major areas of study in the communication field, including speech, writing, public relations, graphic design, marketing, journalism and event management.

The program’s integrated curriculum prepares students with theoretical principles in the communication field, and then requires them to apply those principles in a variety of communication contexts. The flexible curriculum can be customized by students through selection of a focus area of seven courses outside the Communication program; e.g. from psychology, political science, business, art, etc.

Program Mission Statement:
The mission of the Communication program is to prepare graduates for a creative and progressive career in a variety of communication settings and to contribute to the profession and the community through service and scholarship.

Highlights of the Communication Program:

• The program can be completed in 3 years.
• The program’s multi-disciplinary approach prepares students for a variety of careers in communication fields, such as public relations, marketing, advertising, public information, event management, lobbying, development, sales, etc.
• The learning experience can be customized by student selection of a seven-course area of focus outside the program.
• Guest speakers and adjunct professors provide career connections and references for current students and alumni.
• Students engage in two professionally-mentored internship opportunities. Students complete a service-learning practicum on-campus and an external internship with a company/organization in the communication field.

Program Outcomes
The graduate will:

1. Use communication theory and principles to analyze, design and evaluate oral, written, and visual communication in a variety of professional settings.
2. Use current communication technologies and software to analyze, design and evaluate oral, written and visual communication for a variety of professional settings.
3. Use a variety of communication methods and tools to analyze, design, and evaluate an event or campaign for a variety of settings in the field of communication.
Admissions Requirements:
Students must gain general admission to the University of Charleston.

Curriculum:
The Communication major consists of 39 credits of Core Requirements, 9 credits of electives and 72 credits of Liberal Learning Outcomes and Electives, for a total of 120 credits, the minimum required for graduation.

<table>
<thead>
<tr>
<th>Program Core requirements</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICOM 151 Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 201 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 221 Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 225 Introduction to Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 230 Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 305 Public Relations Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 361 Practicum in Communication</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 362 Public Relations Writing</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 400 Communication Research &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 405 Senior Project in Communication</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 441 Communication Law &amp; Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 480 Seminar in Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 498 Communication Internship</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>39</td>
</tr>
</tbody>
</table>

Typical First Year Schedule:
Students entering as freshmen with no transfer credits will typically have a Course schedule similar to the one in the table below.

<table>
<thead>
<tr>
<th>Typical First Year Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>Course</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
</tr>
<tr>
<td>BUSI 151 Introduction to Business</td>
</tr>
<tr>
<td>ICOM 225 Introduction to Public Relations</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
</tr>
<tr>
<td><strong>Total 17</strong></td>
</tr>
</tbody>
</table>
COMMUNICATION (COMN.BA) MINOR

A student from another major must complete a total of 18 credit hours of Communication courses to receive a minor in Communication.

Required Courses: (9 credits)

- ICOM 151 Human Communication
- ICOM 225 Introduction to Public Relations
- ICOM 400 Communication Research & Theory

Choose 3 courses from the following: (9 credits):

- ICOM 221 Introduction to Journalism
- ICOM 201 Public Speaking
- ICOM 305 Public Relations Campaigns
- ICOM 325 Feature Writing
- ICOM 361 Practicum in Communication
- ICOM 362 Public Relations Writing
- ICOM 441 Communication Law & Ethics
- ICOM 498 Communication Internship

Typical Four-Year Schedule

The table below illustrates a typical schedule for completion of the Communication program in four years.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>1</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
<td>4</td>
<td>SPCH 103 Oral Communication Skills</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I</td>
<td>3</td>
<td>HUMN 1XX (any portfolio-building course)</td>
</tr>
<tr>
<td>BUSI 151 Introduction to Business</td>
<td>3</td>
<td>COMM 102 Freshman Writing II</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
<td>3</td>
<td>ICOM 151 Introduction to Human Communication</td>
</tr>
<tr>
<td>ICOM 225 Introduction to Public Relations</td>
<td>3</td>
<td>MATH 116 Survey of Mathematics</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>17</strong></td>
<td><strong>Total:</strong></td>
</tr>
</tbody>
</table>
The music minor curriculum is designed to educate students interested in studying and practicing music as an avocation. The curriculum focuses on the development of content knowledge in popular and world music history in addition to performance skills as a soloist and member of an ensemble. It is possible to complete the music minor in curriculum in six semesters.

Learning Outcomes of the Music Minor
The graduate will:

1. Differentiate between stylistic periods in the history of Western art music, jazz, and rock and roll; American popular music and the traditional music of non-Western societies in Oceania, Asia, and Africa;
2. Recognize specific musical examples;
3. Put development of Western music and American Popular Music into historical, political, and social perspective;
4. Know the significance and contributions of composers, and artists in the development of Western art and popular music;
5. Know the significance and contributions of specific artists, composers, and producers in the music industry;
6. Make connections between the development of American popular music and the development of music technology;
7. Identify general stylistic features of the traditional music of Europe, Central and South America, and the Caribbean;
8. Explain the place of music and the role of the musicians in non-western and western traditional cultures;
9. Explain the political, social, economic, and cultural contexts of the music of all areas studied;
10. Sing or play with expression and technical accuracy a large and varied repertoire of vocal literature with a level of difficulty of 4-5 on a scale of 1 to 6;
11. Demonstrate well-developed ensemble skills;
12. Sing (vocalists only) in Italian, Latin, German, and English, demonstrating correct pronunciation and attention to stylistic stress; and
13. Demonstrate advanced knowledge of vocal or instrumental pedagogy including how the instruments works, and the science of acoustics as it pertains to the instrument.
Requirements of the Minor

The minor in Music requires that the student complete 23 credits: 9 credits in coursework; 6 credits in ensemble; and 8 credits in private instruction.

The minor may include:

- MUSC 212 Music Appreciation ................................................ 3 credits
- MUSC 282 World Music ........................................................... 3 credits
- MUSC 336 American Popular Music ........................................ 3 credits
- MUSC 350P–MUSC 368P Applied Music (Private Lessons) .... 1 credit
- MUSC 324 Concert Choir .................................................... 1 credit per semester

AND/OR

- MUSC 327 Band ................................................................. 1 credit per semester
- MUSC XXX Ensemble .......................................................... 6 credits

Total: 23 credits
DEPARTMENT OF NATURAL SCIENCES & MATHEMATICS

Dr. Mark Watson, Chair

The Department of Natural Sciences and Mathematics strives to:

- Help the student understand common phenomena in nature;
- Appreciate the impact of science on the life of the individual and society;
- Consider, among other factors, the laws and processes of nature in developing a wholesome philosophy of life;
- Achieve proficiency in the use of the scientific method;
- Develop problem-solving skills; and
- Acquire sufficient knowledge of a specific field, or some part of it, for immediate vocational or professional use or as a basis for further study.

The department’s curriculum provides a solid foundation through general courses in biological and physical science, and specialization through courses in each of the majors, with appropriate use of laboratory methods of instruction. Learning is viewed as a partnership between student and instructor, and students are expected to participate as active learners.

Majors in the Department

BIOLOGY
- Tracks
  - Traditional Biology
  - Pre-Pharmacy
  - Pre-Physician Assistant
  - Pre-Professional
  - Biology Data Analytics

CHEMISTRY
- Concentrations
  - Pre-Professional
  - Pre-Pharmacy
  - Chemistry Data Analytics

CHEMISTRY/BIOLOGY DUAL MAJOR

Support courses are offered in
- Mathematics
- Natural Science
- Physical Science

Coursework

All students in the Natural Sciences must complete the courses outlined by the concentration of their specific major and demonstrate competency in the LLOs as specified by the University.

Courses with Labs
All courses with labs will have separate sections and separate grades for the in-class lecture portion and the lab. However, to get full credit for the course, students must pass both. Students failing either the lecture portion or the lab will have to repeat both unless special permission is given by the instructor.

**Capstone Research Experience**

To demonstrate proficiency of the Program Outcomes of each of the programs, majors must complete a hypothesis-based research project and defend it successfully before the science faculty and his or her fellow students. The sequences of capstone learning experiences are CHEM 494 (Chemistry students only), BIOL/CHEM 495, 496, and BIOL 497 (Biology students only).

**Required Research Timeline**

To assure that graduation occurs within the student’s expected time frame, care must be taken to fulfill the requirements for completing the capstone research and seminar learning experiences (CHEM 494, BIOL/CHEM 495, 496, and 497) in the sequence outlined below. Breaking the sequence, skipping a requirement, or failing to complete events by required dates will delay graduation.

- Complete BIOL 130 and NSCI 220 prior to attaining 60 credits.
- During the spring semester of the junior year biology majors will complete a Science Literacy Portfolio.
- Chemistry majors will take CHEM 494 in the fall of their junior year. Students may take CHEM 494 and 495 in the same semester as approved by their advisor.
- The research project, BIOL/CHEM 495 must be completed by the end of the fall semester of the senior year. Students will not be allowed to take BIOL/CHEM 495 and 496 simultaneously.

During the spring of the senior year, students will register for both BIOL/CHEM 496 (Seminar in Science) and biology students will register for BIOL 497 (Science Research Portfolio).
MATHEMATICS

Professor Jennifer Hoffman, Program Director

Mathematics courses are offered to help students:
   Understand, appreciate, and use basic mathematical concepts and natural physical
   laws, and their broad practical application;
   Acquire competence in reading and solving problems in mathematics;
   Achieve sufficient mastery of the field for use in teaching, industry, or further study;
   and
   Understand the relationship of the discipline of mathematics to the society of which it is a part.

No major or minor is offered in Mathematics.

NATURAL SCIENCES

Dr. Jay Wildt, Program Director

Natural Sciences courses are offered to help students:
   Understand the scientific method and its application to the natural world
   Obtain a foundational understanding of biological principles, physical science, and environmental science
   Acquire research experience in the natural sciences
   Develop an understanding and respect for divergent ethical perspectives within scientific disciplines

No major or minor is offered in Natural Sciences.

PHYSICAL SCIENCES

Dr. Juliana Serafin, Program Director

Physical Science courses are offered to help students acquire:
   A clear and logical understanding of the basic concepts and principles of physical science;
   An explanation of how the concepts can be applied to the real world; and
   A foundation in the principles and methods as a basis for professional or pre-professional study.

No major or minor is offered in Physical Sciences.
BIOLOGY MAJOR

Dr. Aida Jimenez, Program Director

- Strong emphasis on undergraduate research and experiential learning
- Formal MCAT and PCAT reviews taught/lead by Professors in their specialties
- Laboratory sections taught by Professors
- Four Program tracks to meet students’ educational goals

Biology Program Mission Statement

“The mission of the Biology Program is to educate each student in understanding the living world and fundamental life processes and to help them acquire the skills and knowledge base needed to teach science, pursue graduate work, or prepare for a career in medicine, dentistry, physician assistant, and physical therapy or as a professional biologist. Each student is encouraged to think critically using their acquired knowledge base to make informed decisions in their future career and life enabling the student to use their skills to productively contribute to their community.”

Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged. Biology is offered on the Charleston campus.

Program Outcomes

The graduate will:
1. Effectively communicate ideas and presents result using proper English grammar, vocabulary, and conventional scientific format in both written and oral formats.
2. Demonstrate comprehension of biological content knowledge through coursework and synthesis of research project.
3. Demonstrate the use of scientific methodology to summarize data in tabular or graphical form.
4. Demonstrate the ethical use of resources, data, and behavior.

Assessment

Biology majors are required to attain a minimum level of “C” in all courses or learning experiences and an overall grade point average (GPA) in all required major courses taken of 2.0 for graduation as per university policy. Competencies for all students will be assessed each semester. Demonstration of competencies is viewed as a continuous process. Once achieved, competencies must be maintained and further refined as each student progresses toward graduation.

Courses with Labs

All courses with labs will have separate grades for the in-class lecture portion and the lab. However, to get full credit, students must pass both the lecture and the related lab with a grade of “C” or better in the same semester. Students failing either the lecture or lab by receiving a “D” or “F” will have to repeat both in the same semester. A student who fails the lecture or the lab or who transfers in credit for lecture without a lab may get approval from the instructor and the department chair to retake one without the other. Approval will be based on available lab seats and lecture seats and may not be granted until the start of the semester.
What You Will Study

The general Biology major is designed for students whose future goals do not foresee the need for additional chemistry, or medical related electives. This includes students who plan on careers in environmental science, graduate school in biology related areas or biological consulting fields. This program leads to a BS in Biology. Students who need or desire additional coursework should meet with their academic advisor to determine an adequate plan of study.

For the general Biology major, the student must fulfill the Liberal Learning Outcomes (LLOs) of the University and must also take:

### REQUIRED NATURAL SCIENCE COURSES – 37 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 220</td>
<td>Statistics in Science and Research</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 126</td>
<td>Scientific Writing Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 130</td>
<td>Introductory Biology for Majors (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 215</td>
<td>General Botany (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>General Zoology (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Human Anatomy &amp; Physiology for Majors I (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Human Anatomy &amp; Physiology for Majors II (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Microbiology for Majors (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 495</td>
<td>Research in Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 496</td>
<td>Seminar in Science</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 497</td>
<td>Science Research Portfolio</td>
<td>1</td>
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</tbody>
</table>

### REQUIRED ADVANCED BIOLOGY COURSES (NEED 2) – 6-8 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 400</td>
<td>Ecology (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 413</td>
<td>Systematic Botany (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 419</td>
<td>Microbial Ecology (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 420</td>
<td>Introduction to Pathophysiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 421</td>
<td>Introduction to Pathophysiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 422</td>
<td>Embryology (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 451</td>
<td>Cell and Molecular Biology (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 453</td>
<td>Virology (with lab)</td>
<td>4</td>
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</tbody>
</table>

### REQUIRED PHYSICS COURSES – 8 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC 201</td>
<td>Introductory Physics I (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 202</td>
<td>Introductory Physics II (with lab)</td>
<td>4</td>
</tr>
</tbody>
</table>

### REQUIRED CHEMISTRY COURSES – 16 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry II (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>Organic Chemistry II (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Organic Chemistry II (with lab)</td>
<td>4</td>
</tr>
</tbody>
</table>

### REQUIRED MATH COURSES* - 4 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>
Other electives are offered and may be taken with the permission of the Program Director or Department Chair. Online or Web courses will not count as elective credit toward your core major or minor classes or electives.

**Pre-requisites:** Please note there are pre-requisites for many Science courses. You must take the prescribed pre-requisites before taking a Science course.

### Typical 4-year Schedule

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>BIOL 130 Introductory Biology Majors (with lab)</td>
</tr>
<tr>
<td>HUMN 1XX OR SSCI 1XX</td>
</tr>
<tr>
<td>COMM 101 Writing I</td>
</tr>
<tr>
<td>MATH 123 Pre-Calculus</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
</tr>
<tr>
<td></td>
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<tr>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>CHEM 101 General Chemistry I (with lab)</td>
</tr>
<tr>
<td>Literature Creativity</td>
</tr>
<tr>
<td>NSCI 220 Statistics in Science &amp; Res.</td>
</tr>
<tr>
<td>NSCI 345 Issues in Medicine</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>BIOL 301 Human Anatomy &amp; Phys. I (with lab)</td>
</tr>
<tr>
<td>BIOL 331 Microbiology for Majors (with lab)</td>
</tr>
<tr>
<td>CHEM 201 Organic Chemistry I (w/lab)</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>BIOL 495 Research in Science</td>
</tr>
<tr>
<td>Required Advanced BIOL course</td>
</tr>
<tr>
<td>Creativity Non-Literature Course</td>
</tr>
<tr>
<td>PHSC 201 Introductory Physics I (w/ lab)</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>17</td>
</tr>
</tbody>
</table>
Electives and Required Advanced Biology courses are chosen by the student in consultation with their advisor to meet total credit hour requirement for degree.

**Additional Requirements**

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston.

The University of Charleston comprehensive examination requirement for Biology majors is met through completion of the senior capstone research project and presentation. Biology Majors should also complete the Biology Assessment test in their freshman year. Biology majors must pass the Biology Assessment test with a 70% or better in their senior year in order to graduate.
Biology Minor

The Biology Minor consists of at least 19 credit hours. Required classes include:

- BIOL 130 and BIOL 130L Introductory Biology for Majors and lab (4 credits)
- NSCI 220 Statistics in Science and Research (3 credits)
- BIOL 224 and BIOL 224L General Zoology OR
- BIOL 215 and BIOL 251L General Botany (4 credits)

The students must also take 8 additional credits from among the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301/301L</td>
<td>A&amp;P I and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 302/302L</td>
<td>A&amp;P II and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 331/331L</td>
<td>Microbiology for Majors and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 332/332L</td>
<td>Genetics and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 333/333L</td>
<td>Immunology and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 400/400L</td>
<td>Ecology and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 419/419L</td>
<td>Microbial Ecology of Health and Disease</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 422/422L</td>
<td>Embryology and lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 451/451L</td>
<td>Cell and Molecular Biology and Lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 453/453L</td>
<td>Virology and lab</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

Traditional Pre-Pharmacy, Pre-Physician Assistant, Pre-Professional, and Biology Data Analytics

A Traditional Pre-Pharmacy Track, Pre-Physician Assistant Track Pre-Professional Track, and a Biology Data Analytics Track are available for students interested in pursuing advanced degrees in pharmacy, health professions, or veterinary science. Please see the sections of this Academic Catalog describing these programs for additional details.

Chemistry-Biology Dual-Major (BIOCHEM)

This specially-designed BS degree plan allows interested students to obtain two majors: chemistry and biology, within a four-year timeframe. Students interested in pursuing this option should consult the section of this Academic Catalog describing the Chemistry Program for a full description of the coursework needed to complete the Dual Major.
**Pre-Professional Track**

*Dr. John Robinson, Advising Coordinator*

The Pre-professional track is composed of, but not limited to, Pre-Medical, Pre-Dentistry, Pre-Chiropractic, and Pre-Physical Therapy. Each discipline has specific courses designed to meet their individual needs.

**Special Features**

All students in the pre-professional track will be provided with a copy of the *University of Charleston Department of Natural Science and Mathematics Pre-Professional Manual* which will outline the proper way to prepare for, apply to, and succeed in medical school. Through classes, students will be groomed in the fine art of interviewing as well as having mock interviews. Pre-professional students will also receive guidance with the writing of personal statements. Students in the pre-professional concentration will have the opportunity, in the various classes, to learn how to suture, read EKGs, and learn surgical techniques during dissection. Many courses will also utilize medical case studies.

**MCAT/DAT/GRE Study**

The Department of Natural Science and Mathematics offers formal study for pre-admission tests for professional school. These sessions are presented by the faculty. The Department also encourages small group study and provides study material to such groups. These services are provided to students without charge.

**Typical Schedule**

<table>
<thead>
<tr>
<th></th>
<th>FIRST YEAR</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>FALL SEMESTER</td>
<td>SPRING SEMESTER</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>UNIV 101 Orientation to University</td>
<td>1</td>
<td>UNIV 102 Orientation to University</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMM 101 Freshmen Writing I</td>
<td>3</td>
<td>COMM 102 Freshmen Writing II</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BIOL 130 Biology for Majors and lab</td>
<td>4</td>
<td>BIOL 224 Zoology and lab</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 101 General Chemistry and lab</td>
<td>4</td>
<td>CHEM 102 General Chemistry and lab</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 123 Pre-Calculus</td>
<td>4</td>
<td>MATH 201 Calculus</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>HUMN 101 Intro to Humanities</td>
<td>3</td>
<td>SSCI 105 Issues in Social Science</td>
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<td></td>
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<td></td>
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<td></td>
<td>SPCH 103 Speech Fundamentals</td>
<td>3</td>
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<tr>
<td></td>
<td>TOTAL CREDITS 19</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

|                  | SECOND YEAR                               |                    |                  |                  |                  |                  |                  |
|                  | FALL SEMESTER                             | SPRING SEMESTER   |                  |                  |                  |                  |                  |
|                  | BIOL 301 Human Anatomy & Phys. I and lab   | 4                  | BIOL 302 Human Anatomy & Phys. II and lab | 4                |                  |                  |                  |
|                  | CHEM 201 Organic Chemistry I and lab       | 4                  | CHEM 202 General Chemistry II and lab | 4                |                  |                  |                  |
|                  | PHSC 101 Introductory Physics I and lab    | 4                  | PHSC 202 Introductory Physics II and lab | 4                |                  |                  |                  |
|                  | BIOL 331 Microbiology and lab              | 4                  | BIOL 215 Botany and lab           | 4                |                  |                  |                  |
|                  | ENGL XXX Literature                        | 3                  | PSYC 101 Intro to Psychology      | 3                |                  |                  |                  |
|                  | TOTAL CREDITS 19                           | 19                 | TOTAL CREDITS 19                 |                  |                  |                  |                  |
### THIRD YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 211  Art and Medicine</td>
<td>PSYC 212 Life-span Developmental</td>
</tr>
<tr>
<td>BIOL 333 Immunology and lab</td>
<td>BIOL 332 Genetics and lab</td>
</tr>
<tr>
<td>BIOL 451 Cell and Molecular Biology</td>
<td>BIOL 303 Medical Terminology</td>
</tr>
<tr>
<td>NSCI 220 Research Statistics</td>
<td>NSCI 345 Issues in Medicine</td>
</tr>
<tr>
<td>CHEM 410 Biochemistry and lab</td>
<td>BIOL 420 Intro to Pathophysiology I</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 18**  **TOTAL CREDITS 17**

### FOURTH YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 495 Research</td>
<td>BIOL 496 Seminar in Science</td>
</tr>
<tr>
<td>BIOL 453 Virology and lab</td>
<td>BIOL 497 Research Portfolio</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>BIOL 126 Biology Portfolio</td>
</tr>
<tr>
<td>PSYC 343 Personality</td>
<td>BIOL 421 Pathophysiology II</td>
</tr>
<tr>
<td>NSCI 333 History of Science</td>
<td>BIOL 304 Physical Assessment</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 16**  **TOTAL CREDITS 9+**
The Department of Natural Science and Mathematics offers two pathways designed to facilitate admission to and success in a graduate pharmacy program. The two pathways are the Pharmacy Direct Program and the Traditional Pre-Pharmacy Concentration.

The Pharmacy Direct Program

The Pharmacy Direct Program is designed to provide students with a direct pathway to pharmacy school. This means direct pharmacy school acceptance to students who complete UC’s pre-pharmacy program. No extra hoops to jump through, no extra classes to take—you are guaranteed a spot as long as you meet progression requirements in your undergraduate students. Students will have the option of completing the prerequisite courses for pharmacy in 2 or 3 years. Students may stay in the program 3 to 4 years and graduate with a bachelor’s degree in either biology or chemistry.

As a Pharmacy Direct student at UC:

• You will complete your pre-pharmacy and pharmacy education in one place
• You are guaranteed admission to the School of Pharmacy, contingent upon successful completion of all progression requirements
• You can graduate with your PharmD (Doctor of Pharmacy Degree) in as little as 6 years
• You have dedicated support from Faculty and Staff to help you through every step of the process

To ensure your seat, you are required to:

• Attend the pre-pharmacy orientation during the beginning of the Fall 2019 semester
• Follow the undergraduate co-curriculum and curriculum prescribed by their advisor
• Maintain an overall GPA of 2.75, with grades of “C” or better in all pre-pharmacy required coursework
• Complete the PharmCAS Early Decision Application and UCSOP Supplemental Application (during July, one year prior to when you want to start the PharmD Program)
• Successfully interview with the University of Charleston School of Pharmacy
• Register and take the Pharmacy College Admission Test (PCAT) during July, one year prior to when you want to start the PharmD program.
• Successfully complete the required criminal background check
• Be an active member of the UC Pre-Pharmacy Club

*In addition, School of Pharmacy program requirements such as health clearances, immunizations, proof of health insurance are also required. More information will be provided prior to starting the PharmD program.
The Pre-Pharmacy Traditional Track

Incoming freshmen choosing not to participate in the Pharmacy Direct Program will be admitted to the traditional pre-pharmacy concentration in either biology or chemistry. Students will have the option of completing the pre-requisite courses for pharmacy in 2 or 3 years. Students may stay in the program 3 to 4 years and graduate with a bachelor’s degree in either biology or chemistry.

### REQUIRED SCIENCE COURSES – 43 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 130</td>
<td>Introductory Biology for Majors (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 215 OR BIOL 224</td>
<td>General Botany (with lab) General Zoology (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Human Anatomy &amp; Physiology for Majors I (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Human Anatomy &amp; Physiology for Majors II (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Microbiology for Majors (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry II (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>Organic Chemistry I (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Organic Chemistry II (with lab)</td>
<td>4 credits</td>
</tr>
<tr>
<td>NSCI 220</td>
<td>Statistics in Science Research</td>
<td>3 credits</td>
</tr>
<tr>
<td>PSHC 201</td>
<td>Introductory Physics I (with lab)</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

### REQUIRED MATH COURSES* - 4 CREDIT HOURS

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>MATH 201</td>
<td>Calculus I</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

*Actual math requirement is 3 credits

### OTHER REQUIRED COURSES – 15 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>BUSI 201 OR BUSI 202</td>
<td>Principles of Microeconomics Principles of Macroeconomics</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMM 101</td>
<td>Freshman Writing I</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMM 102</td>
<td>Freshman Writing II</td>
<td>3 credits</td>
</tr>
<tr>
<td>HIST 212 OR HIST 251 OR HIST 252 OR NSCI 333**</td>
<td>World Cultures II: 17th Century to Current Foundations of the American Republic Contemporary America History of Science</td>
<td>3 credits</td>
</tr>
<tr>
<td>PSYC 101 OR SOCI 101**</td>
<td>Introduction to Psychology Principles of Sociology</td>
<td>3 credits</td>
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</table>

** Other courses may be substituted with approval of the UC School of Pharmacy
### Pre-Pharmacy Schedule – with Completion of Prerequisites in Two (2) Years

#### FIRST YEAR – Pre-Pharm Biology

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 130 Intro. Biology for Majors (w/lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101 General Chemistry I (w/lab)</td>
<td>4</td>
</tr>
<tr>
<td>HUMN 1XX Intro to Humanities OR SSCI 1XX Issues in Social Science</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I*</td>
<td>3</td>
</tr>
<tr>
<td>MATH 123 Precalculus</td>
<td>4</td>
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<tr>
<td>UNIV 101 University Orientation</td>
<td>1</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**TOTAL CREDITS** 19  **TOTAL CREDITS** 23

*Embedded in HUMN 1XX and SSCI 1XX courses

**Embedded in UNIV 102

#### SECOND YEAR – Pre-Pharm Biology

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301 Human Anatomy &amp; Phys. I (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 331 Microbiology for Majors (w/lab)</td>
<td>4</td>
</tr>
<tr>
<td>BUSI 201 Microeconomics OR PSYC 101 Intro.to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 201 Organic Chemistry I (w/ lab)</td>
<td>4</td>
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<tr>
<td>PHSC 201 Introductory Physics I (w/ lab)</td>
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</table>

**TOTAL CREDITS** 19  **TOTAL CREDITS** 21

*Elective

#### THIRD YEAR – Pre-Pharm Biology

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>ART 211 Art and Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 333 Immunology*</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 410 Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>ENGL XXX Literature</td>
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<tr>
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</tbody>
</table>

**TOTAL CREDITS** 14  **TOTAL CREDITS** 16

*Elective
### FOURTH YEAR – Pre-Pharm Biology

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<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>BIOL 4XX (with lab)**</td>
<td>BIOL 304/304L Physical Assessment*</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIOL 495 Research in Science</td>
<td>BIOL 4XX (with lab)**</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYC 212 Life-Span Development*</td>
<td>BIOL 496 Seminar in Science</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 or 460 Senior Capstone</td>
<td>BIOL 497 Science Research Portfolio</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSYC 362 Abnormal Psychology*</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

*Elective **Any 400-level biology with lab

* SSCI 1XX & HUMN 1XX (with embedded COMM 101 and COMM 102) fulfill the requirement for English Composition I and II
  - BUSI 202 can be substituted for BUSI 201
  - SOCI 101 can be substituted for PSYC 101
  - PHSC 202 is not a requirement for pre-pharmacy but is a requirement for a biology or chemistry degree

### Deviations from the Curriculum
- The prescribed course work for admittance to the School of Pharmacy after 2 years of undergraduate work allows for no electives. There will be cases in which freshmen will need to take additional course work such as Honors College, students with choir scholarships, etc. To stay in sequence these students must take these courses in addition to the Scholar courses.
- Students may receive credit for AP courses completed in high school. Acceptance of an AP course for credit will be determined by the registrar. Students receiving AP credit may require additional coursework to maintain full time status.
- Changes in the requirements will be at the discretion of the School of Pharmacy.

### Community Service
Students in both pre-pharmacy Tracks re required to demonstrate participation in the community or campus. Below are listed organizations readily available for students, however, students may choose working with off-campus service organizations or any organized group on campus involved with community service or student government:
- American Chemical Society (ACS)
- American Pharmacists Association-Academy of Student Pharmacists
- Chi Beta Phi Science Honorary
- Christian Pharmacists Fellowship International
- Pre-Pharmacy Club
- Student National Pharmaceutical Association
PRE-PHYSICIAN ASSISTANT TRACK

Dr. Jay Wildt, Advising Coordinator

The Department of Natural Science and Mathematics offers a Pre-PA track designed to facilitate admission to and success in a graduate physician assistant program. Students in the Pre-PA track are advised on an undergraduate Biology (Bachelor of Science) degree path. The required courses include pre-requisites for virtually all PA schools, including the University of Charleston Master of Physician Assistant Program. Details about the Physician Assistant profession and specifics about the UC Physician Assistant program are in the Master of Physician Assistant Program section of the catalog and UC’s web site.

The pathways for admission to the UC Master of Physician Assistant Program are via Fast-Track and Direct Admission. These admission pathways are outlined in detail in the UC Master of Physician Assistant Program section of the catalog. The Pre-PA concentration satisfies the requirements of either pathway.

Special Features

All students in the Pre-PA track will be provided with information from the University of Charleston Department of Natural Science and Mathematics Pre-Professional Manual, providing a greater understanding of the proper way to prepare for, apply to, and succeed in a Physician Assistant school. Through faculty advising and mock interviews, students will be practiced in the fine art the Multi-Mini Interview; the standard interview process for many graduate programs, including UC’s PA school. Pre-PA students will also receive guidance with the writing of personal statements. Students in the Pre-PA track also have the opportunity, through various classes, to learn how to suture, read EKGs, and learn surgical techniques during dissection. Many courses also use case studies to explore Bio-ethics and evidence-based decision-making.

GRE/MCAT Study

The Department of Natural Science and Mathematics offers formal study for admission tests for professional schools. UC’s study sessions are presented by the faculty. The Department also encourages small group study and provides study material to such groups. These services are provided to students without charge.

The University of Charleston’s PA program does not require the Graduate Record Exam (GRE) for admission. However, the GRE is the required admission exam for many other Physician Assistant programs.

Pre-PA: Typical Schedule

The typical four-year schedule for the Biology degree (Pre-PA track) is outlined on the following page. UC PA pre-requisites are italicized. Some course substitutes for later semesters are acceptable. Students accepted to the Master of Physician Assistant Program’s Fast Track admission pathway may choose to matriculate into the Master of Physician Assistant program when appropriate pre-requisite coursework and matriculation requirements are met.

Students motivated to accelerate their course load can increase their credit hours per semester and utilize the summer semester to graduate or be eligible to begin the PA program via fast track sooner. Pre-PA faculty advisors are well prepared to answer questions and work closely with pre-PA students developing course schedules and working toward applying to the program.
## FIRST YEAR - BIOLOGY

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101 Freshman Writing I</td>
<td>COMM 102 Freshman Writing II</td>
</tr>
<tr>
<td>BIOL 130 Intro. Biology for Majors</td>
<td>BIOL 224 General Zoology</td>
</tr>
<tr>
<td>BIOL 130L Intro. Biol. for Majors Lab</td>
<td>BIOL 224L General Zoology Lab</td>
</tr>
<tr>
<td>HUMN 101 Intro to Humanities</td>
<td>SSCI 105 Issues in Social Science</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
<td>MATH 123 Pre-Calculus</td>
</tr>
<tr>
<td>CHEM 101 General Chemistry I</td>
<td>CHEM 102 General Chemistry II</td>
</tr>
<tr>
<td>CHEM 101L General Chemistry I Lab</td>
<td>CHEM 102L General Chemistry II Lab</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 The University Experience</td>
</tr>
<tr>
<td></td>
<td>SPCH 103 Speech Fundamentals</td>
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<td><strong>TOTAL CREDITS</strong></td>
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<td>18</td>
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## SECOND YEAR - BIOLOGY

<table>
<thead>
<tr>
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<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>BIOL 301 Human Anatomy &amp; Physiology I</td>
<td>BIOL 302 Human Anatomy &amp; Physiology II</td>
</tr>
<tr>
<td>BIOL 301L Human Anatomy &amp; Physiology I Lab</td>
<td>BIOL 302L Human Anatomy &amp; Physiology II Lab</td>
</tr>
<tr>
<td>NSCI 220 Statistics in Science &amp; Research</td>
<td>NSCI 333 History of Science</td>
</tr>
<tr>
<td>ENGL XXX Literature</td>
<td>NSCI 345 Issues in Medicine</td>
</tr>
<tr>
<td>BIOL 331 Microbiology for Majors</td>
<td>BIOL 303 Medical Terminology</td>
</tr>
<tr>
<td>BIOL 331L Microbiology for Majors Lab</td>
<td>MATH 201 Calculus I</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
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<tr>
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## THIRD YEAR - BIOLOGY

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>ART 211 Art and Medicine</td>
<td>BIOL 332 Genetics</td>
</tr>
<tr>
<td>CHEM 201 Organic Chemistry I</td>
<td>BIOL 332L Genetics Lab</td>
</tr>
<tr>
<td>CHEM 201L Organic Chemistry I Lab</td>
<td>CHEM 202 Organic Chemistry II</td>
</tr>
<tr>
<td>BIOL 333 Immunology</td>
<td>CHEM 202L Organic Chemistry II Lab</td>
</tr>
<tr>
<td>BIOL 333L Immunology Lab</td>
<td>BIOL 420 Intro to Pathophysiology I</td>
</tr>
<tr>
<td>PHSC 201 Introductory Physics I</td>
<td>PHSC 202 Introductory Physics II</td>
</tr>
<tr>
<td>PHSC 201L Introductory Physics I Lab</td>
<td>PHSC 202L Introductory Physics II Lab</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
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<td>15</td>
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</table>
FOURTH YEAR - BIOLOGY

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>BIOL 495 Research in Science</td>
<td>BIOL 421 Intro to Pathophysiology II</td>
</tr>
<tr>
<td>CHEM 410 Biochemistry</td>
<td>BIOL 4XX Upper Level BIOL course</td>
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<tr>
<td>CHEM 410L Biochemistry Lab</td>
<td>BIOL 496 Seminar in Science</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>BIOL 497 Science Research Portfolio</td>
</tr>
<tr>
<td>PSYC 362 Abnormal Psychology</td>
<td>BIOL 215 General Botany</td>
</tr>
<tr>
<td>BIOL 451 Cell and Molecular Biology</td>
<td>BIOL 215 General Botany Lab</td>
</tr>
<tr>
<td>BIOL 451 Cell and Molecular Biology Lab</td>
<td>BIOL 126 Scientific Portfolio Writing</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>TOTAL CREDITS</td>
</tr>
<tr>
<td>17</td>
<td>14</td>
</tr>
</tbody>
</table>

**BIOLOGY DATA ANALYTICS TRACK**

*David Haas, Advisor*

With a strong emphasis of biology at the molecular, cellular, organismal, and ecosystem levels, this track applies the traditional techniques of computer science, mathematics, and statistics to the solution of problems in biology. Students will acquire the programming, data analysis and modeling skills required to study complex natural systems which will prepare them to deal with the large, complex, imperfect data sets typical of the biological sciences and to convert data into useful and practical information. The preparation in computer science and programming required in this track is quite advantageous to students interested in pursuing a M.S. or Ph.D. in Computational biology, and other fields like Biomedical Informatics, Microbiology or Ecology, which rely more and more every day on bioinformatic tools. For students interested in healthcare professions, this degree offers a foundational focus in genomics and proteomics both areas which are at the foundation of precision medicine.

**PROPOSED COURSES**

**REQUIRED BIOLOGY COURSES – 37 CREDIT HOURS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 220*</td>
<td>Statistics in Science and Research</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 126</td>
<td>Scientific Writing Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 130</td>
<td>Introductory Biology for Majors (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 215</td>
<td>General Botany (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>General Zoology (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Human Anatomy &amp; Physiology for Majors I(with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Human Anatomy &amp; Physiology for Majors II(with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Microbiology for Majors (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 495</td>
<td>Research in Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 496</td>
<td>Seminar in Science</td>
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</tr>
<tr>
<td>BIOL 497</td>
<td>Science Research Portfolio</td>
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</table>
### 3 of the Following Advanced Courses (Two from Group A and One from Group B) – 10 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Group A</td>
<td>BIOL 371 Introduction to Bioinformatics</td>
<td>3</td>
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<tr>
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<td>BIOL 372 Introduction to GIS for Biological Sciences</td>
<td>3</td>
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<td>CHEM 340 Cheminformatics</td>
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</tr>
<tr>
<td>Group B</td>
<td>BIOL 400 Ecology</td>
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<td></td>
<td>BIOL 419 Microbial Ecology of Health and Disease</td>
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<td>BIOL 451 Cell and Molecular Biology</td>
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### Required Physics Courses – 8 Credit Hours

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<tbody>
<tr>
<td>PHSC 201</td>
<td>Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 202</td>
<td>Physics II</td>
<td>4</td>
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</table>

### Required Chemistry Courses – 16 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry II</td>
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<tr>
<td>CHEM 201</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Organic Chemistry II</td>
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</table>

### Required Math Courses – 7 Credit Hours

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 201</td>
<td>Calculus I</td>
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<tr>
<td>MATH 230</td>
<td>Linear Algebra</td>
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### Required Data Science & Statistics Courses – 13 Credit Hours

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<tbody>
<tr>
<td>COSC 101</td>
<td>Introduction to Scientific Programming</td>
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<tr>
<td>DASC 101</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>STAT 120</td>
<td>Introduction to Probability for Data Sciences</td>
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</tr>
<tr>
<td>DASC 330</td>
<td>Modeling and Simulation</td>
<td>3</td>
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</tbody>
</table>
CHEMISTRY MAJOR

Dr. Juliana Serafin, Program Director

- Excellent preparation for employment, research or professional school.
- Strong emphasis on skill acquisition and the ability to perform independent research
- Hands-on laboratory experiences
- UC Student Chapter of the American Chemical Society

From the Faculty

“The mission of the chemistry program is to educate each student on the nature of chemistry and biochemistry, and to prepare the student with sufficient knowledge and skills to pursue productive work in chemistry, or to attend graduate school in chemistry, or to attend professional school in the health sciences, and to enable students in the use of chemistry to interpret everyday life in the pursuit of enlightened living and community involvement.”

Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.

Program Outcomes

The graduate will:
1. Apply the major concepts, principles and theories of chemistry to solve problems.
2. Demonstrate safe and ethical laboratory and synthesis skills to obtain accurate results.
3. Search the chemical literature, perform research, and create new scientific knowledge.
4. Evaluate data and communicate the findings of a chemical research project.

What You Will Study

The major in chemistry consists of 125-130 credits, including 46 credits of required and elective chemistry courses, 24 credits of required mathematics and physics courses, 6 credits in natural science and biology, and about 50 credits of courses to achieve the Liberal Learning Outcomes. In order to graduate, a student must receive a minimum grade of “C” for each of the courses.

The science and mathematics curriculum for the chemistry major is shown in the table below:
### REQUIRED CHEMISTRY COURSES – 46 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 251</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 362</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM XXX</td>
<td>300 or 400-Level Electives</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 410</td>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 412</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 413</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 414</td>
<td>The Chemist’s Toolbox</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 494</td>
<td>Proposal Writing in Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 495</td>
<td>Research in Chemical Science</td>
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</tr>
<tr>
<td>CHEM 496</td>
<td>Seminar in Chemical Science</td>
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</table>

### REQUIRED MATHEMATICS COURSES – 16 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 123</td>
<td>Pre-Calculus</td>
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<tr>
<td>MATH 201</td>
<td>Calculus I</td>
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<tr>
<td>MATH 202</td>
<td>Calculus II</td>
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<tr>
<td>MATH 203</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

### REQUIRED PHYSICS COURSES – 8 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC 201</td>
<td>Introductory Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 202</td>
<td>Introductory Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

### REQUIRED BIOLOGY COURSE – 4 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 130</td>
<td>Introductory Biology for Majors</td>
<td>4</td>
</tr>
</tbody>
</table>

### REQUIRED NATURAL SCIENCE COURSE – 3 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 220</td>
<td>Statistics in Science and Research</td>
<td>3</td>
</tr>
</tbody>
</table>

An AP score of 4 or higher may be used to fulfill the CHEM 101 and CHEM 102 requirement. The initial course in MATH and eligibility to take CHEM 101 will be determined based on SAT and/or ACT Math Scores.

**Typical four-year schedule:**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CHEM 101 General Chemistry I</td>
<td>CHEM 102 General Chemistry II</td>
</tr>
<tr>
<td></td>
<td>FYE HUMN 1XX or SSCI 1XX</td>
<td>FYE HUMN 1XX or SSCI 1XX</td>
</tr>
<tr>
<td></td>
<td>COMM 101 Writing *</td>
<td>COMM 102* Writing II</td>
</tr>
<tr>
<td></td>
<td>BIOL 130 Introductory Biology Majors</td>
<td>HIST 211 World Cultures I or LLOs</td>
</tr>
<tr>
<td></td>
<td>MATH 123 Pre-Calculus</td>
<td>MATH 201 Calculus I</td>
</tr>
<tr>
<td></td>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 The University Experience</td>
</tr>
<tr>
<td></td>
<td>SPCH 103 Fundamentals of Speech**</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL CREDITS: 16+3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL CREDITS: 16+6</td>
</tr>
</tbody>
</table>

*Embedded in HUMN 1XX or SSCI 1XX

**Embedded in UNIV 102**
### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 201 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 251 Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 202 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 201 Introductory Physics I</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 412 Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 220 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 411 Advanced Organic</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 333 History of Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 494 Proposal Writing in Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 410 Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 495 Research in Chem. Science</td>
<td>3</td>
</tr>
<tr>
<td>ART 211 or 250 Art in Medicine or Photography</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

Please note that many chemistry and biology classes have a lab. Although the lab is registered for as a separate class, the credit hour totals above include the lab hours. The student must pass both the lecture and lab portion of the class in order to receive any of the credits.

It is possible to obtain a Chemistry degree in 3 years. Please contact Dr. Serafin for a schedule.

### Additional Requirements

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. Students should take care to fulfill prerequisites for upper division courses as noted in the course descriptions.

Successful completion of American Chemical Society (ACS) examinations may be required as part of the course assessments.

Chemistry majors should follow the Research Timeline described above in the section about Natural Sciences & Mathematics Department Requirements.

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CHEMISTRY MINOR

Students can earn a minor in Chemistry by completing 18 credit hours of Chemistry classes (six of the 18 hours may be classes required for other degrees) in required classes. The required classes are:

CHEM 201, CHEM 202, CHEM 412, CHEM 414, CHEM 251, CHEM 251L, CHEM 496 and CHEM 410 or CHEM 411.

Please note that BIOLOGY Pre-Professional majors must choose CHEM 411 because CHEM 410 is already required for their degree. Majors outside the Natural Science and Mathematics department may be required to take additional hours as prerequisite and co-requisite classes.

CHEMISTRY DATA ANALYTICS TRACK

Dr. David Haas, Advisor

BS in Chemistry Data Analytics Track

This track will enhance the BS Chemistry degree by providing the graduate with a strong background in mathematical analysis as applied to chemical data. Graduates will be able to use computer science, mathematics and statistics, as well as their knowledge of chemistry and cheminformatics, to analyze chemical data. The emphasis will be on retrieving data in the chemical literature for analysis of properties related to structure and reactivity.

While BS Chemistry majors typically do a laboratory-based research project for their Capstone Experience in the major (CHEM 495), Data Analytics track students will do a collaborative chemistry/data analytics project for their Capstone.

Graduates will be well-prepared to enter graduate school in chemistry or work in the pharmaceutical or chemical industries where the interdisciplinary nature of this skill set is valued.

Required classes:

<table>
<thead>
<tr>
<th>REQUIRED CHEMISTRY COURSES - 49 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101 General Chemistry I</td>
</tr>
<tr>
<td>CHEM 102 General Chemistry II</td>
</tr>
<tr>
<td>CHEM 201 Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 202 Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 251 Quantitative Analysis</td>
</tr>
<tr>
<td>CHEM 362 Instrumental Analysis</td>
</tr>
<tr>
<td>CHEM XXX 300 or 400-Level Electives</td>
</tr>
<tr>
<td>CHEM 340 Cheminformatics (NEW CLASS)</td>
</tr>
<tr>
<td>CHEM 410 Biochemistry</td>
</tr>
<tr>
<td>CHEM 412 Physical Chemistry I</td>
</tr>
<tr>
<td>CHEM 413 Physical Chemistry II</td>
</tr>
<tr>
<td>CHEM 414 The Chemist’s Toolbox</td>
</tr>
<tr>
<td>CHEM 494 Proposal Writing in Chemistry</td>
</tr>
<tr>
<td>CHEM 495 Research in Chemical Science</td>
</tr>
<tr>
<td>CHEM 496 Seminar in Chemical Science</td>
</tr>
</tbody>
</table>
### REQUIRED MATHEMATICS COURSES – 19 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 123</td>
<td>Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 201</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 203</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 230</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Discrete Mathematics (recommended, not required)</td>
<td>3</td>
</tr>
</tbody>
</table>

### REQUIRED PHYSICS COURSES – 8 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC 201</td>
<td>Introductory Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 202</td>
<td>Introductory Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

### REQUIRED DATA SCIENCE COURSES – 8 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 101</td>
<td>Introduction to Scientific Programming</td>
<td>4</td>
</tr>
<tr>
<td>DASC 101</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
</tbody>
</table>

### REQUIRED STATISTICS COURSES – 10 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 220</td>
<td>Statistics in Science and Research</td>
<td>3</td>
</tr>
<tr>
<td>STAT 101</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 120</td>
<td>Introduction to Probability for Data Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Typical Schedule for 4-year completion of BS CHEM Data Analytics Track

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>FALL SEMESTER</td>
<td></td>
</tr>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I                                                           4</td>
</tr>
<tr>
<td>FYE HUMN 1XX or SSCI 1XX</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101</td>
<td>Writing I*                                                                   3*</td>
</tr>
<tr>
<td>MATH 123</td>
<td>Pre-Calculus                                                                4</td>
</tr>
<tr>
<td>UNIV 101</td>
<td>Orientation to University                                                   1</td>
</tr>
<tr>
<td>COSC 101</td>
<td>Introduction to Programming                                                 3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>15+3</td>
</tr>
</tbody>
</table>

| SPRING SEMESTER |                                                                                     |
| CHEM 102        | General Chemistry II                                                             4 |
| FYE HUMN 1XX or SSCI 1XX |                                      3 |
| COMM 102        | Writing II                                                                   3* |
| SPCH 103        | Fundamental of Speech**                                                        3** |
| MATH 202        | Calculus II                                                                   4 |
| UNIV 102        | The University Experience                                                    2 |
| DASC 101        | Introduction to Data Science                                                   3 |
| TOTAL CREDITS   | 16+6                                                                     |

*Embedded in HUMN 1XX or SSCI 1XX  **Embedded in UNIV 102

<table>
<thead>
<tr>
<th><strong>SOPHOMORE YEAR</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL SEMESTER</td>
<td></td>
</tr>
<tr>
<td>CHEM 201</td>
<td>Organic Chemistry I                                                             4</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Calculus II                                                                     4</td>
</tr>
<tr>
<td>PHSC 201</td>
<td>Introductory Physics I                                                          4</td>
</tr>
<tr>
<td>STAT 101</td>
<td>Introduction to Statistics                                                     4</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>16</td>
</tr>
</tbody>
</table>

| SPRING SEMESTER   |                                                                                     |
| CHEM 202          | Organic Chemistry II                                                             4 |
| MATH 203          | Calculus III                                                                     4 |
| PHSC 202          | Introductory Physics II                                                          4 |
| STAT 120          | Introduction to Probability                                                      3 |
| TOTAL CREDITS     | 15                                                                     |
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 412 Physical Chemistry I</td>
<td>CHEM 413 Physical Chemistry II</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 410 Biochemistry</td>
<td>CHEM 362 Instrumental Analysis</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>NSCI 220 Statistics</td>
<td>CHEM 340 Cheminformatics</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 411 Advanced Organic</td>
<td>ENGL 2XX or 3XX for 2.3M &amp; 3.2L</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 251 Quantitative Analysis</td>
<td>MATH 230 Linear Algebra</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td><strong>17</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 494 Proposal Writing in Chem.</td>
<td>NSCI 345 Issues in Medicine</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 495 Research Capstone</td>
<td>CHEM 496 Seminar</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>HIST 251 American Republic</td>
<td>CHEM 420 Advanced Biochemistry</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>MATH 225 Discrete Math (optional)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 333 History of Science</td>
<td>ART 211 or 250 Art in Medicine/Photography Elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>CHEM 414 The Chemist's Toolbox</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td><strong>16</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

### CHEMISTRY MAJOR WITH PRE-PHARMACY TRACK

*Dr. David Haas, Advisor*

A Pre-Pharmacy Chemistry Track is available for students interested in pursuing advanced degrees in Pharmacy. Please see the Natural Science and Mathematics Department sections of this *Academic Catalog* describing these programs for additional details.

**Chemistry-Biology Dual-Major (BIOCHEM) Program**

This specially-designed BS degree program allows interested students to obtain a dual major in chemistry and biology within a four-year timeframe, representing a very efficient and vigorous learning approach. Possessing a strong knowledge base in both chemistry and biology gives science students, particularly Pre-Pharmacy and Pre-Professional students, a competitive edge.

Please see the section the section of this *Academic Catalog* describing the Chemistry-Biology Dual Major Plan for further details.
CHEMISTRY-BIOLOGY DUAL MAJOR

Dr. Juliana Serafin, Program Director

- Rigorous curriculum in Biology and Chemistry prepares students for many options in research, employment or professional schools
- Strong emphasis on independent research and skill acquisition
- Opportunity to use specialized instrumentation
- Emphasis on hands-on learning
- University of Charleston Student Chapter of the American Chemical Society on campus

From the Faculty

“This specially-designed BS degree program allows interested students to obtain a dual-major in chemistry and biology within a four-year timeframe. BS degree holders possessing a strong knowledge base in both chemistry and biology are particularly competitive for professional schools.

The mission of the chemistry-biology dual-major program is to educate each student about the nature of chemistry, biology and biochemistry, and to prepare the student with sufficient knowledge and skills to pursue productive work in chemistry, biology or biochemistry in a professional or graduate school, or in the workforce, and to pursue enlightened living and community involvement.”

Admission Requirements

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.

Program Outcomes

The graduate will:
1. Apply the major concepts, principles and theories of chemistry to solve problems.
2. Demonstrate safe and ethical laboratory and synthesis skills to obtain accurate results.
3. Search the chemical literature, perform research, and create new scientific knowledge.
4. Evaluate data and communicate the findings of a chemical research project.

What You Will Study

The Program consists of 40 credits of required chemistry courses, 32 credits of required and elective biology courses, 24 credits of required mathematics and physics courses, 3 credits in the Natural Science Sequence, and 50 credits of Liberal Learning Outcomes. In order to graduate, a student must receive a minimum grade of “C” for each of the chemistry, biology, mathematics, physics, and natural science courses. The science and mathematics curriculum for this Dual-Major Program is as follows:
### REQUIRED CHEMISTRY COURSES - 40 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 201</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 251</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 362</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 410</td>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 411</td>
<td>Advanced Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 412</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 414</td>
<td>The Chemist’s Tool Box</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 494</td>
<td>Proposal Writing in Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 495</td>
<td>Research in Chemical Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 496</td>
<td>Seminar in Chemical Science</td>
<td>1</td>
</tr>
</tbody>
</table>

CHEM 411 OR CHEM 420

#### REQUIRED BIOLOGY COURSES – 32 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 130</td>
<td>Introductory Biology for Majors</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 215</td>
<td>General Botany</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>General Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Microbiology for Majors</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL XXX</td>
<td>300 or 400-level Electives</td>
<td>8</td>
</tr>
</tbody>
</table>

#### REQUIRED MATHEMATICS COURSES – 12 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 123</td>
<td>Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 201</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

#### REQUIRED PHYSICS COURSES – 8 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC 201</td>
<td>Introductory Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 202</td>
<td>Introductory Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

#### REQUIRED NATURAL SCIENCE COURSE – 3 CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 220</td>
<td>Statistics in Science and Research</td>
<td>3</td>
</tr>
</tbody>
</table>

An AP score of 4 or higher may be used to fulfill the CHEM 101 and CHEM 102 requirement. The initial course in MATH and eligibility to take CHEM 101 will be determined based on SAT and/or ACT Math Scores.
Typical four-year schedule:

<table>
<thead>
<tr>
<th></th>
<th>FRESHMAN YEAR</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL SEMESTER</td>
<td>CHEM 101</td>
<td>CHEM 102</td>
</tr>
<tr>
<td></td>
<td>General Chemistry I</td>
<td>General Chemistry III</td>
</tr>
<tr>
<td></td>
<td>FYE HUMN 1XX or SSCI 1XX</td>
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<tr>
<td></td>
<td>COMM 101</td>
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</tr>
<tr>
<td></td>
<td>Writing I*</td>
<td>Writing II</td>
</tr>
<tr>
<td></td>
<td>BIOL 130</td>
<td>NSCI 220</td>
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<tr>
<td></td>
<td>Introductory Biology Majors</td>
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<td></td>
<td>MATH 123</td>
<td>MATH 201</td>
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<td></td>
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</tr>
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<tr>
<td></td>
<td>Orientation to University</td>
<td>The University Experience</td>
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<td></td>
<td>SPCH 103**</td>
<td>SPCH 103</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Speech**</td>
<td>Fundamentals of Speech**</td>
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</table>

*Embedded in HUMN 1XX or SSCI 1XX  **Embedded in UNIV 102

<table>
<thead>
<tr>
<th></th>
<th>SOPHOMORE YEAR</th>
<th>SPRING SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>FALL SEMESTER</td>
<td>CHEM 201</td>
<td>CHEM 202</td>
</tr>
<tr>
<td></td>
<td>Organic Chemistry I</td>
<td>Organic Chemistry II</td>
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<tr>
<td></td>
<td>BIOL 301 A&amp;P I</td>
<td>BIOL 302 A&amp;P II</td>
</tr>
<tr>
<td></td>
<td>MATH 202</td>
<td>HIST 251 or 252</td>
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<td></td>
<td>Calculus II</td>
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<td></td>
<td>PHSC 201</td>
<td>PHSC 202</td>
</tr>
<tr>
<td></td>
<td>Introductory Physics I</td>
<td>Introductory Physics II</td>
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<table>
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<th>JUNIOR YEAR</th>
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<td>FALL SEMESTER</td>
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<td>Quantitative Analysis</td>
<td>Instrumental Analysis</td>
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<tr>
<td></td>
<td>BIOL 331</td>
<td>BIOL 332</td>
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<tr>
<td></td>
<td>Microbiology</td>
<td>Genetics</td>
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<td></td>
<td>NSCI 345</td>
<td>NSCI 333 History of Science</td>
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<td>Issues in Medicine</td>
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<td>CHEM 420</td>
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<tr>
<td></td>
<td>ENGL 2XX or 3XX for 2.3M &amp; 3.2L</td>
<td>BIOL 215 or 224</td>
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<table>
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<tbody>
<tr>
<td>FALL SEMESTER</td>
<td>CHEM 412</td>
<td>CHEM 414</td>
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<tr>
<td></td>
<td>Physical Chemistry I</td>
<td>Chemist’s Toolbox</td>
</tr>
<tr>
<td></td>
<td>CHEM 494</td>
<td>CHEM 411 Advanced Organic</td>
</tr>
<tr>
<td></td>
<td>Proposal Writing in Chemistry</td>
<td>Organic</td>
</tr>
<tr>
<td></td>
<td>BIOL XXX</td>
<td>CHEM 496 Seminar in Chem. Science</td>
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<td></td>
<td>Upper Level class</td>
<td>UNIVERSITY Capstone</td>
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<td></td>
<td>CHEM 495</td>
<td>UNIV 459 or 460 University Capstone</td>
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<td></td>
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<tr>
<td></td>
<td>ART 211 or ART 250 or HIST 211 (3.2 non-Lit)</td>
<td>BIOL XXX Upper level class</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td>TOTAL CREDITS</td>
<td>3</td>
</tr>
</tbody>
</table>

Please note that many chemistry and biology classes have a lab. Although the lab is registered for as a separate class, the credit hour totals above include the lab hours. The student must pass both the lecture and lab portion of the class in order to receive any of the credit.

It is possible to obtain a Chemistry degree in 3 years. Please contact Dr. Serafin for a schedule.

**Additional Requirements**

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. Students should take care to fulfill prerequisites for upper division courses as noted in the course descriptions.
The Department of Social Sciences presents programs that develop students as participating and contributing members of society and who also develop capacity for aesthetic response. Students acquire knowledge that bears directly on life situations, and develop ideas, attitudes, and analytical skills that provide a sound basis for appreciation of people and society.

At the University of Charleston, the study of the Social Sciences is central to development of an understanding of one’s everyday life, as well as an understanding of global culture.

**Majors in the Department**
- HISTORY/POLITICAL SCIENCE
- POLITICAL SCIENCE
- PSYCHOLOGY

**Minors in the Department**
- MINOR IN CRIMINAL JUSTICE
- MINOR IN HISTORY
- MINOR IN POLITICAL SCIENCE
- MINOR IN PSYCHOLOGY
- MINOR IN REGIONAL STUDIES: APPALACHIA
HISTORY-POLITICAL SCIENCE MAJOR

Professor Bradford W. Deel, J.D., Program Director

The History-Political Science dual program produces graduates who lead our governmental and legal institutions. Students are prepared for a life of productive work in governmental agencies, in legal careers (after law school), and in higher education. They are prepared for a life of enlightened living through integration of the University's Liberal Learning Outcomes throughout the curriculum. They are prepared for a life of community involvement through an internship and a Senior Thesis tied to the internship.

Admission Requirements

Students must gain general admission to the University of Charleston. A visit to the campus to meet with Admissions personnel and program faculty is strongly encouraged.

Program Outcomes

The graduate will:

1. Evaluate political phenomena using political science concepts and theories.
2. Apply historical and global perspectives to political problems and policy issues;
3. Formulate research hypotheses using current social science research tools; and
4. Demonstrate a breadth of historical knowledge with depth in a limited area.

What You Will Study

This course of study is a unique and interdisciplinary degree. A dual major in History and Political Science will focus on the development of institutions and ideas, the role of significant historical and political actors, and the cultural values and structures that shape society. Graduates will be prepared to engage and explore the problems that impact our global society.

All History-Political Science dual program students must satisfy the 120-credit hour requirement for graduation. Students must also, when constructing their plan of study, meet the Liberal Learning Outcomes required for graduation by the University of Charleston. These additional hours may be used to earn a second major, if the student so desires.

University requirements, the History-Political Science curriculum, and the minor in History are outlined in the tables below.
Bachelor of Arts in History-Political Science

<table>
<thead>
<tr>
<th>University Requirements – 31 Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 University Orientation</td>
</tr>
<tr>
<td>UNIV 102 The University Experience</td>
</tr>
<tr>
<td>NSCI 1xx Natural Science</td>
</tr>
<tr>
<td>HUMN 1xx Humanities</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I</td>
</tr>
<tr>
<td>COMM 102 Freshman Writing II</td>
</tr>
<tr>
<td>SPCH 103 Oral Communication Skills</td>
</tr>
<tr>
<td>MATH Math 116 or higher</td>
</tr>
<tr>
<td>ENGL Mid-level creativity literature course</td>
</tr>
<tr>
<td>ELEC Mid-level creativity non-literature course</td>
</tr>
<tr>
<td>UNIV 459 or 460 Senior Capstone</td>
</tr>
</tbody>
</table>

Program Requirements

<table>
<thead>
<tr>
<th>History-Political Science Requirements - 45-54 Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 211 World Cultures I</td>
</tr>
<tr>
<td>HIST 212 World Cultures II</td>
</tr>
<tr>
<td>HIST 251 Foundations of the American Republic</td>
</tr>
<tr>
<td>HIST 252 Contemporary America</td>
</tr>
<tr>
<td>HIST 354 Civil War and Reconstruction</td>
</tr>
<tr>
<td>HIST 360 History of War</td>
</tr>
<tr>
<td>HIST 371 History of the Middle East</td>
</tr>
<tr>
<td>POLS 101 American National Government</td>
</tr>
<tr>
<td>POLS 102 State and Local Government</td>
</tr>
<tr>
<td>POLS 200 Foundations of Public Policy</td>
</tr>
<tr>
<td>POLS 210 OR POLS 230 Comparative Government</td>
</tr>
<tr>
<td>POLS 300 Political Science Research Methods</td>
</tr>
<tr>
<td>POLS 400 Senior Thesis</td>
</tr>
<tr>
<td>POLS 492 Internship</td>
</tr>
<tr>
<td>MATH 116 Survey of Mathematics</td>
</tr>
<tr>
<td>GEOG 303 World Geography</td>
</tr>
</tbody>
</table>

Additional Requirements

Each graduating major in the program must complete and pass a comprehensive examination in their final semester.

Completing a Double Major

History-Political Science dual program majors are encouraged to double major with other programs in the broader university community. Double majors must complete all requirements for BOTH majors, with the exception that a single senior thesis is required. Students choosing a double major and who choose to do a senior thesis or project outside of the History-Political Science dual program, must consult with program faculty on the nature of the outside project. The Program expects that a senior thesis completed as part of a double major with a Program degree will engage the discipline in a meaningful way.
HISTORY MINOR

The Minor in History requires 18 hours. Students must choose three of four 200 level courses listed below and three of four listed 300 level courses listed below.

### History Minor - 18 Credit Hours

<table>
<thead>
<tr>
<th>Available Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 211 World Cultures I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 212 World Cultures II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 251 Foundations of the American Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 252 Contemporary America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 354 Civil War and Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 360 History of War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371 History of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 303 World Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

### Internships

Consistent with the mission of the University of Charleston to educate each student for a life of productive work, enlightened living, and community involvement, faculty recognize that only part of a student’s education occurs in the classroom. All students majoring in Political Science, regardless of their concentration, are required to complete an internship related to their discipline. Most students will complete the 12-credit hour E.A.G.L.E. Internship. In extraordinary circumstances, the Program Director may waive the 12-hour E.A.G.L.E. Internship requirement and permit a student to substitute an internship with a minimum of 3 credit hours. Internships are subject to the following guidelines:

- 40 hours of work in the internship = 1 hour of credit.
- Students must maintain a daily journal of their activities.
- Students must submit a 3 to 5-page reflection for each 3 hours of credit received for internships.
- Internships are also subject to general University of Charleston guidelines. Contact the Political Science Program Director for additional information regarding these guidelines.

### Standard Four-Year Path

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
</tr>
<tr>
<td>HIST 251 Found. of American Republic</td>
</tr>
<tr>
<td>HUMN 101 Introduction to Humanities</td>
</tr>
<tr>
<td>MATH 116 Survey of Mathematics</td>
</tr>
<tr>
<td>POLS 101 American National Govt.</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
</tbody>
</table>

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.
### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 211 World Cultures I</td>
<td>HIST 212 World Cultures II</td>
</tr>
<tr>
<td>POLS 200 Foundations of Public Policy</td>
<td>POLS 210 Comparative Government</td>
</tr>
<tr>
<td>ENGL 3xx</td>
<td>POLS Concentration or 2nd Minor</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>Total Credits</strong></td>
</tr>
<tr>
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</tr>
</tbody>
</table>

### Junior Year

<table>
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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>POLS 300 Pol. Sci. Research Methods</td>
<td>HIST 354 Civil War and Reconstruction</td>
</tr>
<tr>
<td>POLS Concentration or 2nd Minor</td>
<td>GEOG 303 World Geography</td>
</tr>
<tr>
<td>HIST 360 History of War</td>
<td>Minor</td>
</tr>
<tr>
<td>POLS Concentration or 2nd Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Minor</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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<tr>
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</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>POLS 400 Senior Thesis</td>
</tr>
<tr>
<td>POLS 492 Internship</td>
<td>HIST 371 History of the Middle East</td>
</tr>
<tr>
<td>POLS Concentration or 2nd Minor</td>
<td>POLS Concentration or 2nd Minor</td>
</tr>
<tr>
<td>POLS Concentration or 2nd Minor</td>
<td>Minor</td>
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<td>Elective</td>
<td><strong>Total Credits</strong></td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

| **Total Credits**                         | **Total Credits**                      |
| 15                                        | 12                                     |

### Three Year Path

Students with exceptional academic qualifications and motivation can finish the History-Political Science dual degree program in only three years. Admission to the three-year path requires approval of the Program Director along with acknowledgement from the student that he or she will have a substantial academic workload from the first semester and will be required to maintain a substantial academic workload throughout the three years.

### Sample Three-Year Plan

#### First Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>HIST 251 Found. of American Republic</td>
<td>SPCH 103 Oral Communication Fundamentals*</td>
</tr>
<tr>
<td>HUMN 101 Introduction to Humanities</td>
<td>HIST 252 Contemporary America</td>
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<td>MATH 116 Survey of Mathematics</td>
<td>NSCI 105 Issues in Natural Science</td>
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<td>POLS 101 American National Govt.</td>
<td>POLS 102 State and Local Government</td>
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<td>ENGL 2XX</td>
<td>UNIV 102 The University Experience</td>
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<td><strong>Total Credits</strong></td>
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<td>19</td>
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### Total Credits

**19**

**18**

**Total Credits**

**19**

**18**

**Notes:**

- **These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.**

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### SECOND YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>HIST 211 World Cultures I</td>
<td>HIST 212 World Cultures II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 360 History of War</td>
<td>HIST 354 Civil War and Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>POLS 200 Foundations of Public Policy</td>
<td>POLS 210 Comparative Government</td>
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</tr>
<tr>
<td>ENGL 3xx</td>
<td>HIST 354 Civil War and Reconstruction</td>
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</tr>
<tr>
<td>Minor</td>
<td>GEOG 303 World Geography</td>
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<tr>
<td>Minor</td>
<td>Minor</td>
<td>3</td>
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<tr>
<td><strong>TOTAL CREDITS</strong></td>
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<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### SUMMER BETWEEN SECOND AND THIRD YEARS

**POL 490 E.A.G.L.E. Internship (12 hours)**

### THIRD YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 300 Political Science Research Methods</td>
<td>POLS 400 Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>HIST 360 History of War</td>
<td>HIST 371 History of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>Concentration specific course</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor</td>
<td>4</td>
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<tr>
<td>Elective</td>
<td>Minor</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 18**
POLITICAL SCIENCE MAJOR

Professor Bradford W. Deel, J.D., Program Director

Mission

The mission of the Political Science program is to prepare graduates for employment, scholarship, or further study in the areas of law, public policy, or criminal justice in service to their professional disciplines and social communities.

- Students who major in Political Science choose one of three program concentrations:
  - The Pre-Law Concentration emphasizes course work appropriate for those who plan to attend law school upon completion of undergraduate studies.
  - The Public Policy Concentration emphasizes the interconnectedness of political science, policymaking, and specific policy areas. This concentration is appropriate for those who want to pursue positions working directly or indirectly with government. It is also appropriate for those who wish to continue their education with graduate studies in social sciences, such as Political Science, History, or Sociology.
  - The Criminal Justice Concentration focuses on developing the skills needed to pursue careers in law enforcement, criminology, homeland security, or corrections with a focus on those skills needed in management positions. Students are also prepared to pursue graduate studies in Criminal Justice.

The program structure encourages students to double major in other fields such as Psychology, English, or Business.

Prestigious internship opportunities with local and state government agencies provide valuable field-work experience in the discipline.

Opportunities to present student research at state, regional and national meetings provide students with real world skills and allow them to network with professionals in the field.

Students work with experienced and engaged faculty who are published authors and have taught at both the undergraduate and graduate levels.

FROM THE FACULTY

“Students who major in Political Science study the actors and institutions of government and examine their interactions with significant ‘others’ that influence lawmaking. In addition, the process of how policy is made within this environment is emphasized. Those who choose to study Political Science at the University of Charleston are immersed in a comprehensive program that integrates the merging of traditional approaches with modern research techniques to prepare students for graduate study, law school, applied work in the disciplines and life-long learning.”

ADMISSION

Students must gain general admission to the University of Charleston. A visit to the campus to meet with Admissions personnel and program faculty is strongly encouraged.
PROGRAM OUTCOMES

The graduate will:
1. Evaluate political phenomena using political science concepts and theories.
2. Apply historical and global perspectives to political problems and policy issues; and
3. Formulate research hypotheses using current social science research tools.

Concentration Outcomes

In addition to the program outcomes for all students,
- Pre-law graduates will be able to evaluate the relationship between society and legal institutions using legal reasoning skills
- Public Policy graduates will be able to integrate knowledge of governmental and non-governmental actors to analyze public policy
- Criminal Justice graduates will be able to evaluate societal responses to crime, terrorism and security

What you will study

The Political Science major focuses on the actors and institutions of government and the complex relationships that exist among those who seek to influence the process. Introductory courses in policymaking and policy analysis are also included in this core. Coursework to explicitly promote critical thinking and logic are integrated throughout the curriculum. These requirements are important for all students in the major, but especially for those who intend to pursue a law degree or other graduate degree upon completion of their undergraduate education.

Beyond these requirements, all students seeking a Bachelor of Arts degree must earn a minimum of 120 credit hours. Students must also, when constructing their plan of study, meet all of the Liberal Learning Outcomes required for graduation by the University of Charleston. These additional hours may be utilized to earn a second major, if the student so desires.

Bachelor of Arts in Political Science

<table>
<thead>
<tr>
<th>CORE REQUIREMENTS - 42 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 212</td>
</tr>
<tr>
<td>HIST 251</td>
</tr>
<tr>
<td>HIST 252</td>
</tr>
<tr>
<td>MATH 116</td>
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<tr>
<td>POLS 101</td>
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<tr>
<td>POLS 102</td>
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<td>POLS 210</td>
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<td>POLS 200</td>
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<td>POLS 300</td>
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<tr>
<td>POLS 400</td>
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<tr>
<td>POLS 490</td>
</tr>
</tbody>
</table>
Pre-Law Concentration

<table>
<thead>
<tr>
<th>PRE-LAW CONCENTRATION – 18 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 230 Introduction to Political Philosophy</td>
</tr>
<tr>
<td>POLS 260 Judicial Branch Politics</td>
</tr>
<tr>
<td>POLS 280 Debating Political Issues</td>
</tr>
<tr>
<td>POLS 314 Constitutional Law I</td>
</tr>
<tr>
<td>POLS 316 Constitutional Law II</td>
</tr>
<tr>
<td>POLS Elective 200 or 300-Level Political Science Elective</td>
</tr>
</tbody>
</table>

Public Policy Concentration

<table>
<thead>
<tr>
<th>PUBLIC POLICY CONCENTRATION – 18 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 240 Legislative Branch Politics</td>
</tr>
<tr>
<td>POLS 250 Executive Branch Politics</td>
</tr>
<tr>
<td>POLS 380 Interest Group Politics</td>
</tr>
<tr>
<td>POLS 390 Ethical Dilemmas in Policy Making</td>
</tr>
<tr>
<td>POLS 314 Constitutional Law I</td>
</tr>
<tr>
<td>POLS Elective 200 or 300-Level Political Science Elective</td>
</tr>
</tbody>
</table>

Criminal Justice Concentration

<table>
<thead>
<tr>
<th>CRIMINAL JUSTICE CONCENTRATION - 18 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 101 Introduction to Criminal Justice</td>
</tr>
<tr>
<td>CRJS 242 Introduction to Law Enforcement</td>
</tr>
<tr>
<td>CRJS 260 Terrorism and Homeland Security</td>
</tr>
<tr>
<td>CRJS 331 OR POLS 314 Criminal Procedure  Constitutional Law I</td>
</tr>
<tr>
<td>CRJS 356 Criminal Law</td>
</tr>
<tr>
<td>POLS 260 Judicial Branch Politics</td>
</tr>
</tbody>
</table>

ADDITIONAL REQUIREMENTS

Each graduating major in the program must complete and pass a comprehensive examination in their final semester before expected graduation.

COMPLETING A DOUBLE MAJOR

Political Science students are encouraged to double major with other programs in the broader university community. Students pursuing a double major must complete all requirements for BOTH majors, with the exception that a single senior thesis is required. Students choosing a double major and who choose to do a senior thesis or project outside of Political Science, must consult with program faculty on the nature of the outside project. The Program expects that a senior thesis completed as part of a double major with a Program degree will engage the discipline in a meaningful way. Possible double majors include:

- Political Science and Business
- Political Science and English
- Political Science and Psychology
POLITICAL SCIENCE MINOR

The Minor in Political Science requires the student to complete 18 credits in Political Science.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 101</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 200</td>
<td>Foundations of Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 210 OR</td>
<td>Comparative Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 230</td>
<td>Introduction to Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 240</td>
<td>Legislative Branch Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 250</td>
<td>Executive Branch Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 260</td>
<td>Judicial Branch Politics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18 credits</strong></td>
<td></td>
</tr>
</tbody>
</table>

CRIMINAL JUSTICE MINOR

The Criminal Justice Minor in Political Science requires the student to complete 18 credits from Political Science and Criminal Justice.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 101</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 242</td>
<td>Introduction to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 260</td>
<td>Terrorism and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 331 OR</td>
<td>Criminal Procedure OR</td>
<td>3</td>
</tr>
<tr>
<td>POLS 314</td>
<td>Constitutional Law I</td>
<td></td>
</tr>
<tr>
<td>CRJS 356</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 260</td>
<td>Judicial Branch Politics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18 credits</strong></td>
<td></td>
</tr>
</tbody>
</table>

Internships

Consistent with the mission of the University of Charleston to educate each student for a life of productive work, enlightened living, and community involvement, faculty recognize that only part of a student’s education occurs in the classroom. All students majoring in Political Science, regardless of their concentration, are required to complete an internship related to their discipline. Most students will complete the 12-credit hour E.A.G.L.E. Internship. In extraordinary circumstances, the Program Director may waive the 12-hour E.A.G.L.E. Internship requirement and permit a student to substitute an internship with a minimum of 3 credit hours. Internships are subject to the following guidelines:

- 40 hours of work in the internship = 1 hour of credit.
- Students must maintain a daily journal of their activities.
- Students must submit a 3 to 5-page reflection for each 3 hours of credit received for internships.
- Internships are also subject to general University of Charleston guidelines. Contact the Political Science Program Director for additional information regarding these guidelines.
### Standard Four-Year Path

#### FRESHMAN YEAR

**FALL SEMESTER**
- COMM 101 Freshman Writing I* 3
- HIST 251 Found. of American Republic 3
- HUMN 101 Introduction to Humanities 3
- MATH 116 Survey of Mathematics 3
- POLS 101 American National Govt. 3
- UNIV 101 Orientation to University 1

**SPRING SEMESTER**
- COMM 102 Freshman Writing II* 3
- HIST 252 Contemporary America 3
- SPCH 103 Oral Comm. Fundamentals* 3
- NSCI 105 Issues in Natural Science 4
- POLS 102 State and Local Government 3
- UNIV 102 The University Experience 2

**TOTAL CREDITS** 16

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

#### SOPHOMORE YEAR

**FALL SEMESTER**
- HIST 211 World Cultures I 3
- POLS 200 Foundations of Public Policy 3
- ENGL 3xx 3
- Minor 3
- Elective 3

**SPRING SEMESTER**
- HIST 212 World Cultures II 3
- POLS 210 Comparative Government 3
- Concentration specific course 3
- Minor 3
- Elective 3

**TOTAL CREDITS** 15

#### JUNIOR YEAR

**FALL SEMESTER**
- POLS 300 Political Science Research Methods 3
- POLS 314 Constitutional Law I 3
- HIST 360 History of War 3
- Concentration specific course 3
- Minor 3

**SPRING SEMESTER**
- Concentration specific course 3
- Minor 3
- Elective 3

**TOTAL CREDITS** 15

#### SENIOR YEAR

**FALL SEMESTER**
- UNIV 459 or 460 University Capstone 3
- E.A.G.L.E. Internship 12

**SPRING SEMESTER**
- POLS 400 Senior Thesis 3
- Concentration specific course 3
- Concentration specific course 3
- Minor 3

**TOTAL CREDITS** 15

**TOTAL CREDITS** 12

### Three Year Path

Students with exceptional academic qualifications and motivation can finish the Political Science program in only three years. Admission to the three year path requires approval of the Program Director along with acknowledgement from the student that he or she will have a substantial academic workload from the first semester and will be required to maintain a substantial academic workload throughout the three years.
Sample Three-Year Plan

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
<td><strong>SPRING SEMESTER</strong></td>
<td></td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>3</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>HIST 251 Found. of American Republic</td>
<td>3</td>
<td>SPCH 103 Oral Comm. Fundamentals*</td>
</tr>
<tr>
<td>HUMN 101 Introduction to Humanities</td>
<td>3</td>
<td>HIST 252 Contemporary America</td>
</tr>
<tr>
<td>MATH 116 Survey of Mathematics</td>
<td>3</td>
<td>NSCI 105 Issues in Natural Science</td>
</tr>
<tr>
<td>POLS 101 American National Govt.</td>
<td>3</td>
<td>POLS 102 State and Local Government</td>
</tr>
<tr>
<td>ENGL 2xx</td>
<td>3</td>
<td>UNIV 102 The University Experience</td>
</tr>
<tr>
<td>UNIV 101</td>
<td>1</td>
<td>TOTAL CREDITS: 19</td>
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</tbody>
</table>

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
<td><strong>SPRING SEMESTER</strong></td>
<td></td>
</tr>
<tr>
<td>HIST 211 World Cultures I</td>
<td>3</td>
<td>HIST 212 World Cultures II</td>
</tr>
<tr>
<td>POLS 200 Foundations of Public Policy</td>
<td>3</td>
<td>POLS 210 Comparative Government</td>
</tr>
<tr>
<td>ENGL 3xx</td>
<td>3</td>
<td>Concentration specific course</td>
</tr>
<tr>
<td>Concentration specific course</td>
<td>3</td>
<td>Concentration specific course</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>Minor</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Minor</td>
</tr>
</tbody>
</table>

TOTAL CREDITS: 18 TOTAL CREDITS: 18

SUMMER BETWEEN SECOND AND THIRD YEARS

POLS 490 E.A.G.L.E. INTERNSHIP 12 CREDITS

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
<td><strong>SPRING SEMESTER</strong></td>
<td></td>
</tr>
<tr>
<td>POLS 300 Political Science Research Methods</td>
<td>3</td>
<td>POLS 400 Senior Thesis</td>
</tr>
<tr>
<td>POLS 314 Constitutional Law I</td>
<td>3</td>
<td>Concentration specific course</td>
</tr>
<tr>
<td>HIST 360 History of War</td>
<td>3</td>
<td>Concentration specific course</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>3</td>
<td>Minor</td>
</tr>
<tr>
<td>Concentration specific course</td>
<td>3</td>
<td>Minor</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>Elective</td>
</tr>
</tbody>
</table>

TOTAL CREDITS: 18 TOTAL CREDITS: 18
PSYCHOLOGY MAJOR

Dr. Annie Cardell, Program Director

- Strong program emphasis on quantitative and qualitative research methods and experimental design prepares students for successful graduate study
- Opportunities to present student research to state, regional, and national audiences
- Internships and service-learning experiences with non-profit, medical, and law enforcement agencies, including YWCA Sojourners Shelter, Family Services of the Kanawha Valley, Charleston Area Medical Center, Habitat for Humanity, and the Kanawha County Public Defender’s Office
- Program structured to encourage students who want a double major in Political Science or History/Political Science

From the Faculty

“The Psychology program helps students understand the operation of behavior and mental processes of organisms, appreciate psychology as a discipline, a science, and a profession, and acquire skills necessary for advanced study or work within the discipline.”

Program Outcomes

The graduate will:
1. Demonstrate the ability to understand, use, and apply the scientific method.
2. Demonstrate mastery of the core fields, paradigms, and theories of psychology.
3. Demonstrate innovation and expertise in the skills representative of academic and applied psychology that will culminate in the production of an undergraduate thesis project that is appropriate to their degree.
4. Demonstrate innovation and mastery of the written and oral communication skill standards of the American Psychological Association that will culminate in the production and presentation of a professional undergraduate thesis.
5. Demonstrate understanding and appreciation of the ethical standards in academic and applied psychology through the integration of ethics in their collective works.

What You Will Study

The Psychology major consists of two tracks, the Bachelor of Sciences (BS) and the Bachelor of Arts (BA). Overwhelmingly, students in the BS and BA tracks will complete the same sequences of courses to achieve their respective degrees. The primary distinction between the two tracks is that the BS track is intended for students who plan to pursue an advanced degree in psychology or related fields, such as social work. The BA track is primarily intended for students who plan to pursue employment immediately following completion of their undergraduate degree. Students following both tracks are required to complete a minimum of 120 credit hours, including 24 credits of Psychology courses and 12 credits of Research Methods core courses. Distinctions between the two tracks will be discussed below. Finally, it is highly recommended that all psychology majors work closely with their program advisor to plan how to best attain their educational goals.
The Psychology BS Track

As indicated, the BS track is intended for students who plan to continue their education beyond the bachelor’s degree. It is structured to prepare students with the required skills in research methods, design, and analysis that most graduate programs desire in their entering students. Additionally, students will develop a firm foundation in the natural sciences. The BS track culminates in an independent, data-driven human participant research project that the student will present at the UC Innovation Showcase and/or at a regional psychology conference.

**BS Track Core Courses in Psychology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 212</td>
<td>Life-Span Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 342</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 373</td>
<td>History of Systems &amp; Theories in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 451</td>
<td>Experimental Psychology I</td>
<td>3</td>
</tr>
</tbody>
</table>

*PSYC electives . Three (3) courses......................................................... 9 credits

**Total:** 24 credits

**BS Track Core Courses in Research Methods**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSCI 203</td>
<td>Methods for the Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 315</td>
<td>Statistics for the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SSCI 320</td>
<td>Computer Assisted Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 452</td>
<td>Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 12 credits

**BS Track Math and Science Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 120 or higher</td>
<td></td>
<td>3 or 4</td>
</tr>
<tr>
<td>BIOL 130</td>
<td>Introductory Biology for Majors + Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

*Choose two additional courses from among:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 215 or higher</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CHEM 100 or higher</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**Total:** 15 or 16 credits

**Typical First Year Schedule in the BS Track**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>UNIV 101</td>
<td>1</td>
</tr>
<tr>
<td>Spring</td>
<td>UNIV 102</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>FYE course (HUMN or SSCI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FYE course (HUMN or SSCI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSYC 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 120</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOL 130 + BIOL 130L</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMM 101 Freshman Writing I*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective***</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 20

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>COMM 102 Freshman Writing II*</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>HIST 212</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSYC 212</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPCH 103**</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective***</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 20

*Embedded in HUMN 1XX or SSCI 1XX; **Embedded in UNIV 102
***Electives should be chosen in conjunction with your advisor and should help further your educational goals.

The Psychology BA Track

The BA track is structured for those students who do not plan to immediately pursue advanced study in psychology or who are interested in entering the workforce upon completion of their degree. To help the BA student decide her or his future, the track includes a cultural diversity requirement in order to expose the student to a wide array of
unique experiences that he or she may encounter outside the classroom. Similar to the BS track, the BA track culminates in a senior research project. The distinction is that the BA project is intended to be more theoretical in nature and will not require the student to conduct human participant research.

**BA Track Core Courses in Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 212</td>
<td>Life-Span Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 342</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 373</td>
<td>History of Systems &amp; Theories in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC electives</td>
<td>Four (4) courses</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total:** ............ 24 credits

**BA Track Core Courses in Research Methods**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSCI 203</td>
<td>Methods for the Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 315</td>
<td>Statistics for the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SSCI 320</td>
<td>Computer Assisted Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 441</td>
<td>BA track capstone course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** ............ 12 credits

**Cultural Diversity and Related Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 120 or higher</td>
<td></td>
<td>3 or 4 credits</td>
</tr>
<tr>
<td>HUMN 110</td>
<td>Unheard Voices</td>
<td>3</td>
</tr>
</tbody>
</table>

*Choose two additional courses from among:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 101, SPAN 102, SPAN 201, FREN 101</td>
<td></td>
<td>3 credits</td>
</tr>
<tr>
<td>FREN 102, FREN 201</td>
<td></td>
<td>3 credits</td>
</tr>
</tbody>
</table>

*Or choose two additional courses from among:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 204, ENGL 231, ENGL 307, ENGL 309, ENGL 320</td>
<td></td>
<td>6 credits</td>
</tr>
<tr>
<td>GEOG 303, HIST 212, HIST 360, HIST 371, HIST 373, HIST 377, HUMN 201</td>
<td></td>
<td>6 credits</td>
</tr>
<tr>
<td>MUSC 212, SOWK 350, SSCI 310</td>
<td></td>
<td>6 credits</td>
</tr>
</tbody>
</table>

**Total:**...12 or 13 credits

**Typical First Year Schedule in the BA Track**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>UNIV 101</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>HUMN 110 FYE course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 120</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 211</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>PSYC 101</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMM 101*</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective***</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>19</td>
</tr>
<tr>
<td>Spring</td>
<td>UNIV 102</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>FYE course (NSCI or SSCI)</td>
<td></td>
<td>3 or 4</td>
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<tr>
<td></td>
<td>HIST 212</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSYC 212</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMM 102*</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPCH 103**</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective***</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 or 21</td>
</tr>
</tbody>
</table>

*Embedded in UNIV 1XX or SSCI 1XX. **Embedded in UNIV 102

***Electives should be chosen in consultation with your advisor and should help further your educational goals.

**Admission Requirements**

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged.
Additional Requirements

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. Psychology majors must take and pass a comprehensive examination or its equivalent prior to or during the final semester of the senior year.

Completing a Double Major

Because Psychology and Political Science are related disciplines, it is possible for Psychology majors to complete a second major in Political Science while staying close to the 120-credit total and four-year graduation time frame. The student would complete 27 credits of Political Science courses in conjunction with an advisor from Political Science. Because coursework at the University of Charleston embeds Liberal Learning Outcomes throughout the curriculum, students can achieve those outcomes while taking these discipline-related courses and attaining the double major.

PSYCHOLOGY MINOR

The minor in Psychology requires that the student complete 18 credits of courses in Psychology.

The minor must include:

PSYC 101 ... Introduction to Psychology .........................3 credits
PSYC 212 ... Life Span Development..............................3 credits
PSYC 3XX . Electives .....................................................12 credits

Total: 18 credits

Nine of the 12 credits of electives must be at the 300 level or above and should be selected in conversation with a member of the Psychology faculty and the student’s major advisor to ensure the student’s educational objectives are met.
REGIONAL STUDIES IN APPALACHIA MINOR

Professor Hallie Dunlap, Coordinator

The Regional Studies in Appalachia minor comprises an interdisciplinary approach, ranging from a study of Appalachian language to an examination of social issues in Appalachia, to the art, culture, history, and community that make up the Appalachian region.

Regional Studies in Appalachia: (Minor) Outcomes:

At the end of the Appalachian Studies minor, the graduate will:

1) Consider the way that “Appalachia” has been theorized in literature, art, music, and other forms of artistic production
2) Consider the socio-economic practices of Appalachia, both in terms of real-world economy and cultural productions that reflect such socio-economic conditions
3) Understand Appalachia in terms of its history from the 1600s to the present and develop a broad, diachronic approach to understanding its development
4) Have a broad, interdisciplinary background that will enable them to be flexible enough to adjust to jobs and changing economy in the region

The Curriculum:

Choose six out of the seven following courses (18 hours):

ENGL 307... Appalachian Literature ................................................. 3 credits
SSCI 310..... WV and Appalachian Region ....................................... 3 credits
ENGL 315... Linguistics .................................................................... 3 credits
GEOG 303 .. World and Regional Geography ................................... 3 credits
UNIV 459 ... Senior Capstone ............................................................ 3 credits

or

UNIV 460 ... Behavioral, Social, & Cultural Problems in Appalachia .... 3 credits
ENTR 2XX . Social Entrepreneurship ............................................... 3 credits
ENGL 338... Appalachian Folkways ................................................. 3 credits
HERBERT JONES SCHOOL OF BUSINESS AND LEADERSHIP

Dr. Scott Bellamy, Dean

The School of Business and Leadership offers career-oriented undergraduate and graduate degree programs designed to provide students a broad education, encompassing the knowledge base, analytical thought processes, ethical grounding, technology and communication skills, and professional preparation necessary to meet the challenges of today’s business environment.

The Herbert Jones Undergraduate Division of Business offers programs leading to the Bachelor of Science degree and an Associate of Science degree in business. Requirements for the bachelor’s and associate degree can be found in the program descriptions that follow.

Undergraduate bachelor’s degrees, associate degrees, minors, and concentrations in the School of Business and Leadership include:

Bachelor of Science in Business Administration (B.S.B.A.) Degree with majors in:

- ACCOUNTING (offered in-seat and online)
- BUSINESS ANALYTICS (in-seat)
- DIGITAL MARKETING (in-seat)
- ENTREPRENEURSHIP (in-seat)
- FINANCIAL PLANNING (in-seat)
- MANAGEMENT (offered in-seat and online)
- SPORT ANALYTICS (in-seat)
- SPORT BUSINESS (in-seat)
- SPORT MEDIA (in-seat)

Bachelor of Science (B.S.) Degrees:

- CYBERSECURITY (CYBR) (online)
- ORGANIZATIONAL LEADERSHIP (ORGL) (online degree completion program)

Associate of Science (A.S.) Degrees:

- BUSINESS ADMINISTRATION (BUSI) (offered in-seat and online)
- CRISIS & EMERGENCY LEADERSHIP (CEL) (online)
- FRONTLINE LEADERSHIP (FLDR) (online)

Available Undergraduate Minors and Concentrations

- BUSINESS ADMINISTRATION MINOR
- ENTREPRENEURSHIP MINOR
- MILITARY SCIENCE (MSCI) (ROTC offered in cooperation with West Virginia State University)
- ORGANIZATIONAL LEADERSHIP MINOR
- SPORT BUSINESS MINOR

ORGL CONCENTRATIONS:
- First Responder / Criminal Justice (OLFR)
- Healthcare Leadership (OLHC)
- Aviation Leadership (OLAV)
Early Degree Completion

Motivated students can complete the traditional/residential B.S. degree in fewer than four years by following – and successfully completing – a carefully designed curriculum plan, prepared in consultation with their faculty advisors.

The Cooperative Education/Internship Program

All undergraduate business students are strongly encouraged to participate in at least one cooperative employment or internship work experience while at the University; internship experiences are required in the curriculum for majors in business analytics, digital marketing, entrepreneurship, management, sport analytics, sport business, and sport media. Internship experiences improve the marketability of graduates, often leading directly to offers of employment. Current students are enjoying placements with regional and national firms. The University’s Center for Career Development (CCD) assists students when searching for internships or cooperative employment. Students should consult with their faculty advisor and the CCD for assistance.

Graduate Degree Programs in the School of Business and Leadership

The Graduate School of Business and Leadership offers three Master’s degree programs and one doctoral degree. Requirements for the graduate degrees can be found in the program descriptions that follow.

Graduate degree programs (in-seat and online as indicated below):

- **MASTER OF BUSINESS ADMINISTRATION (MBA)** (offered in-seat and online)
- **MASTER OF SCIENCE IN CYBERSECURITY (CYBR)** (online)
- **MASTER OF SCIENCE IN STRATEGIC LEADERSHIP (GSL)** (online)
- **DOCTOR OF EXECUTIVE LEADERSHIP (DEL)** (online with annual residency)

Available Graduate Concentrations

- Master of Business Administration (MBA) Concentrations:
  - Business Analytics
  - Healthcare Management
  - Management

- Master of Science in Strategic Leadership (GSL) Concentrations:
  - Business Leadership (SLBL)
  - Healthcare Leadership (SLHM)
  - Strategy as Practice (SLSP)
Accreditation

The academic programs at the University of Charleston are accredited by the Higher Learning Commission (HLC). The School of Business & Leadership is a member of the Accreditation Council of Business Schools & Programs (ACBSP) and is currently a candidate for this specialized business accreditation. In addition, our financial planning curriculum is approved as a Registered Program by the Certified Financial Planner board of Standards, Inc., 1425 K Street NW #800, Washington, DC 20005.

Professional Certifications, Continuing Education, and Leadership Training Programs

The School of Business and Leadership offers a variety of degree and non-degree coursework that prepares students for professional certification exams, including the Certified Public Accountant (CPA), Microsoft Office Specialist (MOS), Certified Financial Planner® (CFP), Project Management Professional (PMP), Lean Six Sigma (Yellow, Green and Black Belts), and Cybersecurity certifications (Certified Incident Handler, Certified Ethical Hacker, and Security Analyst). The School also has the expertise to offer customized leadership and organizational development programs to help organizations fill gaps in employee training as organizations grow and change. Some non-degree workshops and seminars may also allow participants to earn continuing education credits.
BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (B.S.B.A.)

Dr. Kim Shin, Chair

The University of Charleston School of Business & Leadership offers a Bachelor of Science degree in Business Administration (B.S.B.A.) with a choice of majors in the following areas of study:

ACCOUNTING (offered in-seat and online)
BUSINESS ANALYTICS
DIGITAL MARKETING
ENTREPRENEURSHIP
FINANCIAL PLANNING
MANAGEMENT (offered in-seat and online)
SPORT ANALYTICS
SPORT BUSINESS
SPORT MEDIA

All majors under the B.S.B.A degree program will complete a common business core of 15 courses (45 credits) that provides students a foundation of knowledge in all business areas and satisfies an undergraduate Common Professional Component (CPC) recognized by the Accreditation Council of Business Schools & Programs (ACBSP). The School of Business & Leadership is a member of ACBSP and is currently a candidate for this specialized business accreditation.

Beyond the business core, students gain additional specialized knowledge, skills, and abilities from coursework in their majors. Our business programs are designed to equip students with the tools, attitudes, applied learning, professional preparation needed for productive careers in their chosen professions, a commitment to continuing learning, and a sense of responsibility to serve their communities.

From the Faculty

“The Business Administration degree program prepares broadly educated, analytical thinkers with the knowledge base, ethical grounding, professional preparation, and technology skills necessary to meet the challenges of today’s business environment. The program’s design gives students a common core of knowledge along with the ability to choose a major that meets his or her unique educational goals.”

Admission

Students must gain general admission to the University of Charleston. A visit to campus to meet with Admissions personnel and program faculty for B.S.B.A. majors is strongly encouraged.

Program Outcomes

In addition to achieving the University’s Liberal Learning Outcomes, B.S.B.A. graduates will demonstrate the achievement of learning outcomes both in the B.S.B.A. core and in their chosen major(s).
Business Administration Core Outcomes
The graduate will:
1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.
These business administration core outcomes are the same for all majors under the B.S.B.A. degree program. The additional learning outcomes for individual majors are listed under the degree requirements for those majors.

What You Will Study
The B.S.B.A. degree program requires the completion of all business administration core outcomes, the major outcomes, and the university’s Liberal Learning Outcomes. Students in all majors under the B.S.B.A. degree program are required to complete a total of 45 credits in the business administration core plus additional credits within their major. The 45-credit core for the B.S.B.A. degree is as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 202</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 215</td>
<td>Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 231</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 241</td>
<td>Business Careers &amp; Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 316</td>
<td>Quantitative Methods for Business &amp; Economics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 317</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 360</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 407</td>
<td>Global Dimensions of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 450</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>FINA 312</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 321</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**B.S.B.A. Core:** 45

Additional Requirements
Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. Business students are required to take MATH 121 College Algebra or MATH 123 Pre-Calculus. Students who plan to pursue graduate study are strongly advised to take MATH 201 Calculus I.

All students in B.S.B.A. degree program must complete an exit-level assessment in their major. Undergraduate majors in Business Analytics, Digital Marketing, Entrepreneurship, Financial Planning, and Management must take and pass the Educational Testing Service’s (ETS) Major Field Achievement Test for Business in the last semester of the senior year, scoring at least 140 points; students must register and pay for subsequent attempts if they don’t pass on their first attempt. Majors in Accounting, Sport Analytics, Sport Business, and Sport Media are not required to complete the ETS major field achievement test; their exit-level assessment is embedded in a major course.
Completing a Double Major/Concentration

Students earning a B.S.B.A degree may choose more than one major and/or apply to enter UC’s MBA program. Such combinations give the student a broader range of opportunities upon graduation. These options are especially attractive for majors in the three-year program or those who wish to complete the 150-credit hour requirements for the CPA examination in a different way.

MINOR IN BUSINESS ADMINISTRATION

The Minor in Business Administration is offered both in-seat in Charleston and online. The minor is designed to encourage students from other disciplines to develop business skills. Students must complete 21 credits consisting of the following courses:

<table>
<thead>
<tr>
<th>Minor in Business Administration</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>BUSI 151*</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FINA 312</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 321</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total for Minor:</strong></td>
<td><strong>21</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Students on a track to meet the prerequisites for entering UC’s Master of Business Administration (MBA) program may substitute BUSI-316 for BUSI-151.

ASSOCIATE OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

An Associate Degree at UC requires 60 earned academic credits (20 of which must be residential credits), fulfillment of foundational Liberal Learning Outcomes, fulfillment of all requirements and outcomes of the academic program, a cumulative UC grade point average of at least 2.0, and demonstration of achievement of exit-level standards on discipline and program outcomes.

The Associate of Science (A.S.) degree in Business Administration is offered both in-seat in Charleston and online and requires the following 30 credit hours of business courses:

<table>
<thead>
<tr>
<th>Business Courses Required for the A.S. Degree in Business Administration</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 151 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202 Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FINA 312 Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Electives in ACCT, BUSI, FINA, MGMT, MRKT, or SPBU</td>
<td>9</td>
</tr>
<tr>
<td><strong>Business Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>
Note: Candidates must complete the foundational LLO requirements not met by courses in the business requirements. These courses include COMM 101, COMM 102, SPCH 103, NSCI 117 or equivalent, HUMN 1XX, MATH 120 or higher, BUSI 202 or SSCI 1XX for the 1.1 LLO, any course with the 3.2 LLO, and UNIV 101 and 102 or UNIV 203. In addition, all students must complete sufficient electives to achieve the 60 earned academic credits required to earn an associate degree.

Two-year schedule for completion of the A.S. Degree in Business Administration

<table>
<thead>
<tr>
<th>FALL SEMESTER - FRESHMAN</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101* Freshman Writing I</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 151 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120 Intermediate Algebra or higher</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING SEMESTER – FRESHMAN</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 102** Freshman Writing II (portfolio)</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 103** Oral Communication Fundamentals (portfolio)</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters or equivalent</td>
<td>4</td>
</tr>
<tr>
<td>UNIV 102 Orientation to University</td>
<td>2</td>
</tr>
<tr>
<td>ACCT 202 Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

*COMM 101 and 102 are embedded within HUMN 1XX, NSCI 117, and SSCI 1XX

**SPCH 103 is embedded within UNIV 102

Transfer students and online students – register for UNIV 203 and SPCH 103 (if they do not have transfer credit for foundational speaking/speech/oral communication).

<table>
<thead>
<tr>
<th>FALL SEMESTER – SOPHOMORE</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>3.2 LLO Elective (any course with 3.2 LLO)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING SEMESTER – SOPHOMORE</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FINA 312 Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Total for A.S. Degree** | **60**

Note: Students who complete the two-year associate degree in Business Administration may continue to earn their B.S. in Business Administration with one of our undergraduate business majors.
ACCOUNTING MAJOR

Professor Suzanne King, Program Director

The Accounting major is offered as an in-seat residential program on the Charleston campus and is available online.

Mission

The mission of the Accounting Program is to prepare students with the knowledge and analytical skills specific to the accounting discipline, an understanding of the role of the accounting professional in serving the business community and the public, and the knowledge, skills and attitudes necessary for adapting and responding to an ever-changing world.

Program Highlights

- A Professionalism Program to help students develop professional skills and competencies.
- An emphasis on accounting and business casework and problem solving prepares students for today’s business challenges.
- Integration of ethical practice and critical thinking throughout accounting curriculum.
- Opportunity for students to complete the accelerated program in fewer than four years.
- Opportunity for students to complete both the undergraduate Accounting program and the Master of Business Administration in fewer than five years.

The Accounting Program will help students develop the skills and competencies necessary to be successful on professional examinations. The requirements to sit for the CPA exam differ from state to state. Under current West Virginia law, CPA applicants may sit for the exam with a baccalaureate degree and completion of specific accounting and business courses. To become a licensed CPA the candidate must not only pass the exam, but also meet the 150-hour education and the experience requirements. Those specific requirements can be found at the West Virginia Board of Accountancy website. The requirements for all State Boards of Accountancy can be found on the webpage of the National Association of State Boards of Accountancy. Students should consult with their academic advisors.

Professionalism program activities including workshops and presentations by accounting professionals are held on the Charleston campus. These events will be made available to online students through synchronous sessions that can also be videoed for students unable to participate in the live events.

Program Outcomes

Business Administration Core Outcomes

The graduate will:

1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.
Accounting Major Outcomes

The graduate will:

1. Demonstrate an understanding of the accounting information system and accounting cycle: the ability to identify, gather, measure, summarize, report, and analyze financial data.
2. Analyze a variety of financial accounting problems and cases and apply the appropriate financial reporting framework in problem solving.

What You Will Study

The Accounting major is part of the B.S. in Business Administration degree and requires a total of 120 institutional credits, including 45 credits of business administration core courses, 21 credits of accounting courses beyond the introductory courses included in the core, and completion of all Liberal Learning Outcomes and additional coursework to total 120 credits. Successful completion of this program qualifies the student for a Bachelor of Science degree in Business Administration with a major in Accounting. A nine-hour CPA track is available for students planning to sit for CPA examination.

<table>
<thead>
<tr>
<th>Accounting Major Courses</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACCT 301</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 302</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 322</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 360</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 412</td>
<td>Advanced Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 448</td>
<td>Auditing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one (1) from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 423</td>
<td>Federal Taxes - Individual</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 424</td>
<td>Federal Taxes - Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 21

<table>
<thead>
<tr>
<th>CPA Track Courses</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACCT 403</td>
<td>Intermediate Accounting III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 462</td>
<td>Accounting Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one (1) from the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 423</td>
<td>Federal Taxes - Individual</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 424</td>
<td>Federal Taxes - Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 9

Accounting majors are required to take MATH 121 College Algebra or MATH 123 Pre-Calculus. Students who plan to pursue graduate study are strongly advised to take MATH 201 Calculus I.

Accounting majors are encouraged to take ACCT 201 Principles of Accounting I and ACCT 202 Principles of Accounting II in the freshman year. All Business majors are expected to complete the freshman writing portfolios (COMM 101 and COMM 102) prior to the beginning of the sophomore year.

Additional Requirements

All students must pass a comprehensive assessment during their senior year.
Completing a Double Major

Accounting majors can choose to double major in Financial Planning or another business-related major under the B.S.B.A. degree program. Such a combination gives the student a broader range of opportunities upon graduation. This is especially attractive for majors in the three-year program or those who wish to complete the 150-credit hour requirements for the CPA examination in a different way.

Accounting Program

Typical Four-Year Student Schedule

<table>
<thead>
<tr>
<th>First Year Schedule**</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>1</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
<td>3</td>
<td>NSCI 1XX Natural Science</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I</td>
<td>3</td>
<td>COMM 102 Freshmen Writing II</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>3</td>
<td>BUSI 202 Principles of Macroeconomics</td>
</tr>
<tr>
<td>MATH 121 College Algebra</td>
<td>3</td>
<td>ACCT 202 Principles of Accounting II</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>3</td>
<td>SPCH 103 Oral Communication Skills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 215 Business Information Systems</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>16</td>
<td><strong>Total:</strong> 20</td>
</tr>
</tbody>
</table>

* COMM 101 and COMM 102 are embedded in NSCI 1XX or HUMN 1XX courses.

<table>
<thead>
<tr>
<th>Second Year Schedule**</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 301 Intermediate Accounting I</td>
<td>3</td>
<td>ACCT 302 Intermediate Accounting II</td>
</tr>
<tr>
<td>BUSI 241 Business Careers &amp; Communication</td>
<td>3</td>
<td>FINA 312 Business Finance</td>
</tr>
<tr>
<td>BUSI 231 Business Law I</td>
<td>3</td>
<td>MRKT 321 Principles of Marketing</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>3</td>
<td>ENGL 2XX Literature</td>
</tr>
<tr>
<td>HIST 212 World Cultures II</td>
<td>3</td>
<td>Elective Course</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15</td>
<td><strong>Total:</strong> 15</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year Schedule**</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ACCT 403 Intermediate Accounting III</td>
<td>3</td>
<td>ACCT 322 Cost Accounting</td>
</tr>
<tr>
<td>ACCT 423 Federal Income Taxes-Individual</td>
<td>3</td>
<td>ACCT 360 Accounting Information Systems</td>
</tr>
<tr>
<td>BUSI 316 Quantitative Methods for Business &amp; Economics</td>
<td>3</td>
<td>BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>BUSI 360 Business Ethics</td>
<td>3</td>
<td>ART 231 Innovation in Art &amp; Business</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
<td>Elective Course</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
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<td><strong>Total:</strong> 15</td>
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</table>

<table>
<thead>
<tr>
<th>Fourth Year Schedule**</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 448 Advanced Accounting</td>
<td>3</td>
<td>ACCT 448 Auditing</td>
</tr>
<tr>
<td>*ACCT 424 Federal Income Taxes-Business</td>
<td>3</td>
<td>ACCT 462 Accounting Ethics</td>
</tr>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>3</td>
<td>BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td>3</td>
<td>UNIV 4XX Senior Capstone</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
<td>Elective Course</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15</td>
<td><strong>Total:</strong> 15</td>
</tr>
</tbody>
</table>

* ACCT 403 and 424 are only required for the CPA track.

** To meet the 150-credit hour education requirement to sit for the CPA exam students must take 18 hours each semester of the sophomore, junior, and senior years, and additional credits during the Freshman year.
BUSINESS ANALYTICS MAJOR

Dr. Suvayan De, Interim Program Director

The Business Analytics major is offered as an in-seat residential program on the Charleston campus.

Business Analytics graduates will have a broad-based business education that includes development of the quantitative data analysis skills and communication skills necessary for solving real-world business problems and communicating solutions. This is an interdisciplinary major that utilizes three courses from computer science and data analytics programs. The program integrates professional preparation certifications and an internship experience to better prepare students with the skills desired by employers.

Career opportunities for graduates of the program include:

BUSINESS SYSTEM ANALYST
DATA ANALYST
MANAGEMENT ANALYST
SALES ANALYST
MARKET RESEARCH ANALYST
BUSINESS SYSTEM ANALYST
DATA CONSULTANT
BIG DATA ARCHITECT
OPERATIONS MANAGEMENT

Business Analytics majors will take a 45-credit business core that includes professional certification opportunities for Microsoft Office Specialist (MOS) certification and Google Analytics. Business Analytics majors also have an opportunity to double major in complimentary areas of business or major/minor in fields outside the business area.

Program Description

Business Analytics majors will be able to use and clean datasets to extract, analyze, and communicate operational information to make data-based decisions in professional operating environments, including office, manufacturing, military, government, banking, consulting, and other managerial professions.

Program Outcomes

Business Administration Core Outcomes

The graduate will:
1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.

Business Analytics Major Outcomes

The graduate will:
1. Analyze and apply data-driven tools and techniques to evaluate business decisions.
2. Communicate quantitative information and demonstrate proficiency with the help of a variety of data-analytic tools.
What You Will Study

The Business Analytics major is part of the B.S. in Business Administration degree and requires a total of 120 institutional credits of academic work, including 45 credits of business administration core courses, 25 credits of major courses, and 50 credits of Liberal Learning Outcomes and other elective credits.

### Business Analytics – Required Courses in Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 101X</td>
<td>Introduction to Scientific Programming</td>
<td>4</td>
</tr>
<tr>
<td>DASC 101X</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DASC 250X</td>
<td>Introduction to Data Visualization</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 31X</td>
<td>Big Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 32X</td>
<td>Predictive Modelling for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 33X</td>
<td>Business Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 41X</td>
<td>Business Analytics Capstone</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 498</td>
<td>Business Analytics Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Credits in Major:** 25

**Total Credits for Major (45 BSBA Core + 25 Required):** 70

### Typical Four-Year Student Schedule for Business Analytics

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101 Freshman Writing I*</td>
<td>COMM 102 Freshman Writing II*</td>
</tr>
<tr>
<td>MATH 121 College Algebra</td>
<td>SPCH 103 Oral Comm. Fundamentals*</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
<td>NSCI 117 Why Science Matters</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>ACCT 202 Principles of Accounting II</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>BUSI 202 Principles of Macroeconomics</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 241 Business Careers &amp; Communication</td>
<td>ART 231 Innovation in Art &amp; Business</td>
</tr>
<tr>
<td>BUSI 231 Business Law I</td>
<td>BUSI 316 Quantitative Methods for Busi &amp; Econ</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>DASC 101 Intro to Data Science (4.2 &amp; 5.2)</td>
</tr>
<tr>
<td>BUSI 215 Information Systems</td>
<td>HIST 212 World Cultures II</td>
</tr>
<tr>
<td>COSC 101 Intro to Scientific Programming</td>
<td>Elective Course</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
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</table>

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DASC 250 Intro to Scientific Visualization</td>
<td>BUSI 33X Business Forecasting</td>
</tr>
<tr>
<td>BUSI 317 Business Statistics</td>
<td>FINA 312 Business Finance</td>
</tr>
<tr>
<td>BUSI 360 Business Ethics</td>
<td>MGMT 420 Organizational Behavior</td>
</tr>
<tr>
<td>ENGL 2XX Literature</td>
<td>Elective Course</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>Elective Course</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>
### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 31X Big Data Analytics</td>
<td>BUSI 41X Business Analytics Capstone</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 32X Predictive Modelling for Business Analytics</td>
<td>BUSI 498 Business Analytics Internship</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td>UNIV 4XX Senior Capstone</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong> 15</td>
<td><strong>TOTAL CREDITS</strong> 12</td>
</tr>
</tbody>
</table>

### Additional Requirements

Business Analytics majors must meet all University of Charleston graduation requirements and must take and pass the Educational Testing Service’s (ETS) Major Fields Achievement Test for Business prior to or during the final semester of the senior year, scoring at least 140 points; students must register and pay for subsequent attempts if they do not pass on their first attempt.
The Digital Marketing major an in-seat residential program on the Charleston campus.

The Digital Marketing program is designed to produce a market-ready digital marketing manager for 21st century employment. Through application the students will research, create, and execute a digital marketing campaign. The rapid growth of social media and digital media is fostering growth in the number of employment opportunities for graduates with the skill set and experience in the application of digital technology skills in marketing. This interdisciplinary program utilizes two courses from Digital Media Design and integrates professional preparation certifications, an internship experience, and a digital marketing strategy capstone experience to better prepare students with the digital marketing skills desired by employers.

Career opportunities for graduates of the program include:

- Marketing Manager
- Digital Marketing Analyst
- Digital Marketing Sales Professional
- Digital Marketing Buyer / Advertising Placement Manager
- Public Relations Specialist or Manager
- Social Media Manager

Digital marketing majors will take a 45-credit business administration core that includes professional certification opportunities for Microsoft Office Specialist certification (MOS), Google Analytics, and others. Students also have the opportunity to double major in complimentary areas of business or major/minor in fields outside the business area such as Communications.

Program Description

Our major in Digital Marketing is designed to appeal to learners with an interest in applying marketing principles to digital technology in order to improve business and marketing decision making. The major studies the history of Marketing as a discipline with special attention to 21st century digital marketing trends. Foundational material, history, theory, applied simulation, and professional marketing certifications will combine to produce a skilled, market-ready, digital marketing practitioner.

Program Outcomes

Business Administration Core Outcomes

The graduate will:

1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.
Digital Marketing Major Outcomes

The graduate will:
1. Create digital marketing campaigns.
2. Evaluate customer action attribution and marketing investment return.

What You Will Study

The Digital Marketing major is part of the B.S. in Business Administration degree and requires a total of 120 institutional credits of academic work, including 45 credits of business administration core courses, 21 credits of major courses, and 54 credits of Liberal Learning Outcomes and other elective credits.

### Digital Marketing – Required Courses in Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 371</td>
<td>E-Marketing (Digital Marketing)</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 401</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 402</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 42X</td>
<td>Digital Marketing Strategy Capstone</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 498X</td>
<td>Marketing Internship</td>
<td>3</td>
</tr>
<tr>
<td>DMDS 200X</td>
<td>Digital Media &amp; Graphics</td>
<td>3</td>
</tr>
<tr>
<td>DMDS 311X</td>
<td>Web &amp; Social Media Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Credits in Digital Marketing Major:** 21

**Total Credits for Major (45 BSBA Core + 21 Required in Major):** 66

### Typical Four-Year Student Schedule for Digital Marketing

#### FRESHMAN YEAR

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101 Freshman Writing I*</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 121 College Algebra</td>
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</tr>
<tr>
<td>HUMN 1XX Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td></td>
<td>3</td>
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<td>UNIV 101 Orientation to University</td>
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**TOTAL CREDITS** 16

**SPRING SEMESTER**

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<tr>
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<tr>
<td>COMM 102 Freshman Writing II*</td>
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<tr>
<td>SPCH 103 Oral Comm. Fundamentals*</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202 Principles of Accounting II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSI 202 Principles of Macroeconomics</td>
<td></td>
<td>3</td>
</tr>
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<td>UNIV 102 The University Experience</td>
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</table>

**TOTAL CREDITS** 17

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.

#### SOPHOMORE YEAR

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 241 Business Careers &amp; Communication</td>
<td></td>
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</tr>
<tr>
<td>BUSI 231 Business Law I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DMDS 2XX Digital Media &amp; Graphics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DMDS 3XX Web &amp; Social Media Design</td>
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<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 15

**SPRING SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 312 Business Finance</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2XX Literature</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSI 215 Information Systems</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 15
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 371 Digital Marketing</td>
<td>3 MRKT 401/301 Advertising</td>
</tr>
<tr>
<td>BUSI 316 Quantitative Methods for Bus&amp;Econ</td>
<td>3 BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>BUSI 360 Business Ethics</td>
<td>3 ART 231 Innovation in Art &amp; Business</td>
</tr>
<tr>
<td>HIST 212 World Cultures II</td>
<td>3 Elective Course with 5.2 LLO</td>
</tr>
<tr>
<td>Elective Course with 4.2 LLO</td>
<td>3 Elective Course</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
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</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 402 Marketing Research</td>
<td>3 MRKT 42X Digital Marketing Capstone</td>
</tr>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>3 MRKT 498X Marketing Internship</td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td>3 BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3 UNIV 4XX Senior Capstone</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
<td>12</td>
</tr>
</tbody>
</table>

**Additional Requirements**

Digital Marketing majors must meet all University of Charleston graduation requirements and must take and pass the Educational Testing Service’s (ETS) Major Fields Achievement Test for Business prior to or during the final semester of the senior year, scoring at least 140 points; students must register and pay for subsequent attempts if they do not pass on their first attempt.
ENTREPRENEURSHIP MAJOR

Dr. Kim Shin, Interim Program Director

The Entrepreneurship major is an in-seat residential program on the Charleston campus.

Entrepreneurship-related occupations are projected to grow 13% from 2016–2026, with the largest growth in the consultant segment. Self-employment is expected to grow 4% over the same period (Bureau of Labor Statistics).

Career opportunities for graduates of the program include:

• Entrepreneur who starts a business
• Business Consultant
• Sales
• Research and Development
• Fundraiser
• Marketing Consultant

The business administration core includes professional certification opportunities for Microsoft Office Specialist certification (MOS) and Google Analytics, and provides an internship within the major. The program offers the opportunity for students to double major in complimentary areas of business or major/minor in fields such as communication or digital media and design.

Program Description

The Entrepreneurship Major is designed to appeal to learners at all life stages, including traditional freshmen students and adult learners seeking a flexible, efficient, and innovative learning experience. Students who major in Entrepreneurship will develop an understanding of business ventures in all phases, including conception, launch, and sustainability. Emphasis will be placed on innovative and interdisciplinary problem solving, identifying viable business opportunities, securing financial resources, and successfully identifying and reaching target markets using the Business Model Canvas. Students who graduate with this degree will develop skills that will prepare them for careers as either an entrepreneur who establishes their own business or an intrapreneur who utilizes their innovative skills for another organization. These skills include:

• Design-thinking problem identification and innovation
• Methodologies for risk assessment and assessment of success and failure
• Identifying consumer behavior patterns
• Research skills
• Analysis of market data

Program Outcomes

Business Administration Core Outcomes

The graduate will:
1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.

**Entrepreneurship Major Outcomes**

The graduate will:
1. Integrate marketing and communication skills to demonstrate innovative solutions to business formation and growth.
2. Demonstrate competency in developing and executing strategic approaches to business operations and challenges.
3. Apply financial, operational, and market knowledge to create business plans and presentations that identify paths to value creation.

**What You Will Study**

The Entrepreneurship major is part of the B.S. in Business Administration degree and requires a total of 120 institutional credits of academic work, including 45 credits of business administration core courses, 21 credits of required entrepreneurship courses, 3 credits of required/restricted electives in the major, and 51 credits of Liberal Learning Outcomes and other elective credits.

<table>
<thead>
<tr>
<th>Entrepreneurship – Required Courses in Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 201 Introduction to Entrepreneurship</td>
</tr>
<tr>
<td>ENTR 301 Marketing for Startups</td>
</tr>
<tr>
<td>ENTR 318X Entrepreneurship Finance (Financial Analysis for Startups)</td>
</tr>
<tr>
<td>ENTR 355X Entrepreneurship Strategy</td>
</tr>
<tr>
<td>ENTR 498X Entrepreneurship Internship</td>
</tr>
<tr>
<td>MGMT 318 Organization &amp; Operation of Small Business</td>
</tr>
<tr>
<td>BUSI 232 Business Law II (Legal Issues in Business)</td>
</tr>
</tbody>
</table>

**Required Credits in Major:** 21

**Required Electives (select 3 credit hours from the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 371 E-Marketing (Digital Marketing)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 402 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 402 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>DMDS 210X 3D Design &amp; Product Development</td>
<td>3</td>
</tr>
<tr>
<td>DMDS 311X Web &amp; Social Media Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Credits in Entrepreneurship Major:** 3

**Total Credits for Major (45 Core + 21 Required + 3 Major Elective):** 69

**Typical Four-Year Student Schedule for Entrepreneurship Majors**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
</tr>
<tr>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 16 **TOTAL CREDITS** 17

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.
### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 241 Business Careers and Communication</td>
<td>BUSI 231 Business Law I</td>
</tr>
<tr>
<td>BUSI 215 Information Systems</td>
<td>BUSI 360 Business Ethics</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>ENTR 201 Introduction to Entrepreneurship</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
<td>FINA 312 Business Finance</td>
</tr>
<tr>
<td>1.3 LLO Elective</td>
<td>3.2 LLO Elective</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 316 Quantitative Methods for Bus. and Economics</td>
<td>BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>ENTR 301 Marketing for Startups</td>
<td>BUSI 407 Global Dimensions of Business</td>
</tr>
<tr>
<td>MGMT 318 Small Business Management</td>
<td>MRKT 321 Principles of Marketing</td>
</tr>
<tr>
<td>BUSI 232 Business Law II</td>
<td>ENTR 318X Entrepreneurship Finance</td>
</tr>
<tr>
<td>3.2L LLO Elective</td>
<td>MGMT 420 Organizational Behavior</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 459 or 460 Senior Capstone</td>
<td>ENTR 498X Entrepreneurship Internship</td>
</tr>
<tr>
<td>ENTR 355X Entrepreneurship Strategy for New Entry, Growth, and Exit</td>
<td>Major Restricted Elective</td>
</tr>
<tr>
<td>BUSI 450 Business Strategy</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>TOTAL CREDITS</strong></td>
</tr>
<tr>
<td>15</td>
<td>12</td>
</tr>
</tbody>
</table>

**Additional Requirements**

Entrepreneurship majors must meet all University of Charleston graduation requirements and must take and pass the Educational Testing Service’s (ETS) Major Fields Achievement Test for Business prior to or during the final semester of the senior year, scoring at least 140 points; students must register and pay for subsequent attempts if they don’t pass on their first attempt.
ENTREPRENEURSHIP MINOR

The Entrepreneurship minor is an in-seat residential program on the Charleston campus.

The Minor in Entrepreneurship is available to students pursuing any major at the University of Charleston. The Minor is founded on the understanding that there is a common process for the realization of new ventures, whether those ventures are start-up businesses, non-profits, artistic endeavors or growth within existing enterprises.

The program focuses on the development of the entrepreneurial mindset and the ability to think and act in creative, innovative, opportunistic, and proactive ways. Skills learned in entrepreneurship classes will apply to any business – large or small, public or private, corporate or not-for-profit, local or global. Students will learn to recognize, create and shape opportunities, provide leadership and build teams to create economic and social value.

The University of Charleston believes that experiential, active engagement is the most effective way to help students acquire the skills, knowledge and mindset fundamental to entrepreneurship.

Entrepreneurship Minor Learning Outcomes

1. Graduates will demonstrate the ability to apply Entrepreneurial finance and marketing strategies in venture development.
2. Graduates will demonstrate an understanding of intellectual property management and business law.
3. Students will apply design thinking and Business Model Canvas in their venture development.

Curriculum

The Entrepreneurship Minor consists of 19 credit hours, 16 credit hours of required courses and one 3-credit elective.

<table>
<thead>
<tr>
<th>Entrepreneurship Minor - Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 201 Introduction to Innovation, Entrepreneurship &amp; New Venture Creation</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 233 Introduction to Intellectual Property</td>
<td>1</td>
</tr>
<tr>
<td>BUSI 232 Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 301 Marketing for Startups</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 318X Financial Analysis for Startups</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 401X Entrepreneurship Practicum</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Approved Entrepreneurship Minor Electives – Choose One (1)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 Design Foundation</td>
<td>3</td>
</tr>
<tr>
<td>ART 231 Innovation in Art and Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 151 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 215 Business Software</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 370 Issues in Capitalism</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 350 Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits for Entrepreneurship Minor** 19
FINANCIAL PLANNING MAJOR

Dr. Jacob Tenney, CFP®, Program Director

The Financial Planning major is an in-seat residential program on the Charleston campus.

According to the Bureau of Labor Statistics, the outlook for careers in Financial Planning is strong. The median pay nationally for personal financial advisors in 2018 was just under $90,000 per year (somewhat lower locally) and the predicted job growth for the next 5-10 years is 15%, which is much faster than average. There is a growing demand for financial planners as many current financial planners are close to retirement and many baby boomers are approaching retirement. Some of the career opportunities in Financial Planning include:

- Registered Investment Advisers
- Accounting and Tax Registered Investment Advisors
- Banking, Credit Unions, and Trust Companies
- Discount Brokerage Companies
- Wirehouse Brokerages
- Life & Disability Insurance Companies
- Property and Casualty Insurance Companies
- Independent Broker/Dealers
- Government, Academia/Research

Program Description

Graduates in Financial Planning acquire a highly marketable skill set involving theory-based financial knowledge, strong analytical tools and the ability to calculate and to apply critical finance-related reasoning from a strategic perspective. The Financial Planning curriculum is approved by the CFP Board of Standards and prepares students to sit for the CFP® certification examination.

Program Outcomes

Business Administration Core Outcomes

The graduate will:
1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.

Financial Planning Major Outcomes

The graduate will:
1. Effectively gather and analyze client data to design financial plans that help clients meet life goals.
2. Communicate effectively with clients throughout the process of creating and implementing high-quality financial plans.
What You Will Study

The Financial Planning major is part of the B.S. in Business Administration degree and requires a total of 120 institutional credits of academic work, including 45 credits of business administration core courses, 24 credits Financial Planning major coursework, and 51 credits of Liberal Learning Outcomes and other elective credits. The 51 credits of Liberal Learning Outcomes and electives allow students to include a minor or possibly double major with Accounting or another applicable major. Such a combination gives the student a broader range of opportunities upon graduation.

Financial Planning Program

Typical Four-Year Student Schedule
(For students entering UC in an even year)

First Year Schedule

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 205</td>
<td>Fundamentals of Financial Planning</td>
<td>3</td>
</tr>
<tr>
<td>FINA 310</td>
<td>Financial Counseling and Communication</td>
<td>3</td>
</tr>
<tr>
<td>FINA 305</td>
<td>Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 405</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FINA 410</td>
<td>Retirement Planning</td>
<td>3</td>
</tr>
<tr>
<td>FINA 415</td>
<td>Estate Planning</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 423</td>
<td>Federal Income Taxes for Individuals</td>
<td>3</td>
</tr>
<tr>
<td>FINA 420</td>
<td>Financial Planning Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

* COMM 101 and COMM 102 are embedded in NSCI 1XX or HUMN 1XX courses.

Financial Planning – Required Courses in Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 205</td>
<td>Fundamentals of Financial Planning</td>
<td>3</td>
</tr>
<tr>
<td>FINA 310</td>
<td>Financial Counseling and Communication</td>
<td>3</td>
</tr>
<tr>
<td>FINA 305</td>
<td>Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 405</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FINA 410</td>
<td>Retirement Planning</td>
<td>3</td>
</tr>
<tr>
<td>FINA 415</td>
<td>Estate Planning</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 423</td>
<td>Federal Income Taxes for Individuals</td>
<td>3</td>
</tr>
<tr>
<td>FINA 420</td>
<td>Financial Planning Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Credits in Financial Planning Major:</strong></td>
<td><strong>24</strong></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits for Major (45 BSBA Core + 24 Required in Major): 69

Second Year Schedule

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 241</td>
<td>Business Careers &amp; Communication</td>
<td>3</td>
</tr>
<tr>
<td>FINA 305</td>
<td>Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 423</td>
<td>Federal Income Taxes-Individual</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 215</td>
<td>Information Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 202</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FINA 312</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 405</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FINA 410</td>
<td>Retirement Planning</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>15</strong></td>
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</tbody>
</table>
### Third Year Schedule

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 415 Estate Planning</td>
<td>FINA 420 Capstone in Financial Planning</td>
</tr>
<tr>
<td>FINA 305 Financial Counseling and Communication</td>
<td>BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>BUSI 316 Quantitative Methods for Bus&amp;Econ</td>
<td>ART 231 Innovation in Art &amp; Business</td>
</tr>
<tr>
<td>BUSI 360 Business Ethics</td>
<td>ENGL 2XX Literature</td>
</tr>
<tr>
<td>BUSI 231 Business Law I</td>
<td>MRKT 321 Principles of Marketing</td>
</tr>
<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 15</td>
</tr>
</tbody>
</table>

### Four Year Schedule

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td>UNIV 4XX Senior Capstone</td>
</tr>
<tr>
<td>Elective Course</td>
<td>Elective Course</td>
</tr>
<tr>
<td>HIST 212 World Cultures II</td>
<td>Elective Course</td>
</tr>
<tr>
<td>Elective Course</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 12</td>
</tr>
</tbody>
</table>

*FINA 201 is an elective course, but highly recommended for the major and fulfills one of the LLO 4.2 requirements.*

---

### Financial Planning Program

Typical Four-Year Student Schedule

*(For students entering UC in an odd year)*

### First Year Schedule

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
<td>NSCI 1XX Natural Science</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I*</td>
<td>COMM 102 Freshmen Writing II*</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>BUSI 202 Principles of Macroeconomics</td>
</tr>
<tr>
<td>MATH 121 College Algebra</td>
<td>ACCT 202 Principles of Accounting II</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>SPCH 103 Oral Communication Skills</td>
</tr>
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<td><strong>Total:</strong> 16</td>
<td><strong>Total:</strong> 17</td>
</tr>
</tbody>
</table>

* COMM 101 and COMM 102 are embedded in NSCI 1XX or HUMN 1XX courses.

### Second Year Schedule

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 201 Financial Literacy**</td>
<td>FINA 205 Fundamentals of Financial Planning</td>
</tr>
<tr>
<td>BUSI 241 Business Careers &amp; Communication</td>
<td>FINA 312 Business Finance</td>
</tr>
<tr>
<td>BUSI 231 Business Law I</td>
<td>MRKT 321 Principles of Marketing</td>
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<td>ENGL 2XX Literature</td>
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<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 15</td>
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</tbody>
</table>
### Third Year Schedule

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 305 Risk Management and Insurance</td>
<td>FINA 405 Investments</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 423 Federal Income Taxes-Individual</td>
<td>FINA 410 Retirement Planning</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 316 Quantitative Methods for Business &amp; Economics</td>
<td>BUSI 317 Business Statistics</td>
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<td>3</td>
<td>3</td>
</tr>
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<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HIST 212 World Cultures II</td>
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</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 15</td>
</tr>
</tbody>
</table>

### Four Year Schedule

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 415 Estate Planning</td>
<td>FINA 420 Capstone in Financial Planning</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>FINA 305 Financial Counseling and Communication</td>
<td>BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>UNIV 4XX Senior Capstone</td>
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<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td>Elective Course</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>Elective Course</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 12</td>
</tr>
</tbody>
</table>

**FINA 201 is an elective course, but highly recommended for the major and fulfills one of the LLO 4.2 requirements.**

### Additional Requirements

- Financial Planning majors must meet all University of Charleston graduation requirements including all Liberal Learning Outcomes. Financial Planning students are required to take MATH 121: College Algebra or MATH 123 Pre-Calculus. Students who plan to pursue graduate study are strongly advised to take MATH 201 Calculus I. All Financial Planning majors are expected to complete the freshman writing portfolios (COMM 101 and COMM 102) prior to the beginning of the sophomore year.

- Internships are strongly recommended in order to be marketable and better prepared for careers in Financial Planning. Internships can count for credit hours if the internship experience is approved and the required paperwork is completed.

- Financial Planning majors must meet all University of Charleston graduation requirements and must take and pass the Educational Testing Service’s (ETS) Major Fields Achievement Test for Business prior to or during the final semester of the senior year, scoring at least 140 points; students must register and pay for subsequent attempts if they do not pass on their first attempt.
MANAGEMENT MAJOR

Dr. Kim Shin, Interim Program Director

The Management major an in-seat residential program on the Charleston campus and is available online.

The management program is designed to provide the knowledge and skills necessary for a well-rounded management foundation. The program integrates professional preparation certifications and experiences throughout the core and major courses.

The Bureau of Labor Statistics projects employment in management occupations to grow 8% from 2016-2026. The growth is expected to be driven by the formation of new organizations and the expansion of existing ones requiring more workers to manage these operations.

Career opportunities for graduates of the program include:
• Management analyst
• Business consultant
• Personnel manager
• Operations manager
• Business development manager
• Human resource manager
• Retail manager
• Training and development manager

The business administration core includes professional certification opportunities for Microsoft Office Specialist certification (MOS) and Google Analytics, and an internship within the major. The program offers the opportunity for students to double major in complimentary areas of business or major/minor in fields such as communication or political science.

Program Description

The management major is designed to appeal to learners at all life stages, including high school graduates, working adults, and members of the military, seeking a flexible, efficient, and effective learning experience. The major is designed to help prepare students for entry-level management positions in business, government, public service, and technical environments and will prepare experienced managers or mid-career professionals wishing to advance their career. The management major provides students with a comprehensive understanding of the principles, processes, and practices involved in the management of people and organizations. Areas of emphasis include human resource management, small business management, leadership, and team development.

Students who graduate with this degree will develop the following skills:
• Problem-solving and decision making
• Leadership
• Team building
• Effective communication
• Performance assessment
Program Outcomes

**Business Administration Core Outcomes**
The graduate will:
1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.

**Management Major Outcomes**
The graduate will:
1. Integrate various functional areas of business to guide innovation, formulate strategy, and solve complex business problems.
2. Apply management concepts and approaches to lead employees through organizational change.
3. Evaluate management theories and practices in corporate, government and small business settings.

**What You Will Study**

The Management major is part of the B.S. in Business Administration degree and requires a total of 120 institutional credits of academic work, including 45 credits of business administration core courses, 24 credits of management major courses, and 51 credits of Liberal Learning Outcomes and other elective courses.

<table>
<thead>
<tr>
<th>MANAGEMENT Major Courses</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td></td>
</tr>
<tr>
<td>MGMT 318</td>
<td>Small Business Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 320</td>
<td>Human Resources Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 343</td>
<td>Sales Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 372X</td>
<td>Leadership and Organizational Change</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 416X</td>
<td>Managing Individuals and Teams</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 420</td>
<td>Organizational Behavior</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 445</td>
<td>Operations Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT 498</td>
<td>Management Internship</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Required Credits in Management Major: 24

Total Credits for Major (45 BSBA Core + 24 Required in Major): 69

**Typical Four-Year Schedule for Management Majors**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I*</td>
</tr>
<tr>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 16  TOTAL CREDITS 17

*These are not separate courses. The outcomes are embedded within HUMN, NSCI, SSCI, and UNIV courses.
### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 241 Business Careers and Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 215 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>1.3 LLO Elective</td>
<td>3</td>
</tr>
<tr>
<td>3.2 LLO Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 316 Quantitative Methods for Business &amp; Economics</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 372X Leadership &amp; Organizational Change</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 445 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**Additional Requirements**

Management majors must meet all University of Charleston graduation requirements and must take and pass the Educational Testing Service’s (ETS) Major Fields Achievement Test for Business prior to or during the final semester of the senior year, scoring at least 140 points; students must register and pay for subsequent attempts if they do not pass on their first attempt.
The Sport Analytics major is an in-seat residential program on the Charleston campus.

Sport Analytics at the University of Charleston is an interdisciplinary major that utilizes courses from computer science and data analytics, a 45-credit business core, and major courses in sport business and sport analytics. The major provides students with progressive learning opportunities that will prepare them for possible career opportunities as a sport statistician, sport data analyst, sport sales analyst or as a market research analyst. In addition, students will be actively involved in experiential learning experiences that challenge their acquired skills and prepare them to contribute productively in their chosen communities.

**Features**

- In the last semester of the senior year, the student will complete an internship in the field of Sport Analytics.
- Practical-based instruction from academic professionals with experience in the sport industry. Experiential opportunities are included to gain applied experience outside the classroom.
- Class assignments that prepare students for the work that is required in the sport industry; in-class work is focused on the application of knowledge gained.
- A 45-credit core for the Business Administration degree (BSBA) that prepares students for successful management, administrative and leadership roles in sport business and business administration.
- An option for a Sport Business minor that consists of 18 hours in sport business courses as specified in the Sport Business Minor section.

**From the Faculty**

The Sport Analytics program blends liberal learning, business, and sport management courses in a curriculum designed to prepare graduates for positions in areas such as intercollegiate and interscholastic athletic programs, professional sport organizations, sport marketing agencies, and entrepreneurship development. Sport Analytics is a developing field in the sport industry and students are encouraged to pursue these new and exciting opportunities.

**Program Outcomes**

**Business Administration Core Outcomes**

The graduate will:

1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.

**Sport Analytics Major Outcomes**

The graduate will:

1. Develop programming, analytical and data analysis skills for utilization in statistical and analytical sport settings.
2. Actively apply written, public speaking and personnel management skills in sport industry environments.
3. Demonstrate the ability to locate, evaluate and effectively utilize research information as a sport industry professional.

What You Will Study

The Sport Analytics major is part of the B.S. in Business Administration degree, requiring a foundational business administration core of 45 credits and 36 credits of Sport Analytics major courses which include experiential learning opportunities and a diverse selection of sport business classes to prepare the graduate for a career in the sport industry. Practicum and Internship experiences are required and allow the student to work with a sport business organization.

The University’s location in the hub of the region’s business, financial, government and medical center opens the door to many practical work experience prospects. An internship in the sport industry is required for graduation. Students are encouraged to pursue regional, national and international sport business internship opportunities.

Curriculum

<table>
<thead>
<tr>
<th>Sport Analytics – Required Courses in Major</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBU 101</td>
<td>Introduction to Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 220</td>
<td>Coaching Theory</td>
<td>3</td>
</tr>
<tr>
<td>SBPU 250</td>
<td>Social Issues in Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 298</td>
<td>Practicum Experience</td>
<td>1</td>
</tr>
<tr>
<td>SPBU 301</td>
<td>Sport Sales/Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 3XX</td>
<td>Sport Analytics Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 390</td>
<td>Junior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SPBU 435</td>
<td>Sport Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 460</td>
<td>Sport Law</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 498</td>
<td>Internship in Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>COSC 101X</td>
<td>Introduction to Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>DASC 101X</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DASC 250X</td>
<td>Introduction to Data Visualization</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Credits in Sport Analytics Major: 36
Total Credits (45 BSBA Core + 26 SPBU + 10 COSC/DASC): 81

Typical Four-Year Student Schedule for Sport Analytics Major

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td></td>
<td>NSCI 117 Why Science Matters</td>
<td>HUMN 101 Introduction to Humanities</td>
</tr>
<tr>
<td></td>
<td>DASC 101 Intro to Data Science</td>
<td>SPBU 101 Introduction to Sport Business</td>
</tr>
<tr>
<td></td>
<td>BUSI 201 Principles of Microeconomics</td>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td></td>
<td>COMM 101 Freshmen Writing I*</td>
<td>COMM 102 Freshmen Writing II*</td>
</tr>
<tr>
<td></td>
<td>MATH 120 Intermediate Math (if needed)</td>
<td>SPCH 103 Fundamentals of Oral Communication</td>
</tr>
<tr>
<td>TOTAL</td>
<td>14</td>
<td>17</td>
</tr>
</tbody>
</table>

* COMM 101, COMM 102 are embedded in NSCI 1XX, HUMN 1XX courses.
### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICOM 230.250 (Graphic Design or Photography)</td>
<td>ACCT 202 Principles of Accounting II</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>SPBU 225 Sport Media/Information</td>
</tr>
<tr>
<td>COSC 101 Intro to Computer Programming</td>
<td>DASC 250 Data Visualization</td>
</tr>
<tr>
<td>BUSI 241 Business Careers &amp; Communication</td>
<td>SPBU 298 Practicum Experience</td>
</tr>
<tr>
<td></td>
<td>BUSI 215 Information Systems</td>
</tr>
<tr>
<td><strong>TOTAL</strong> 15</td>
<td><strong>TOTAL 16</strong></td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 202 Principles of Macroeconomics</td>
<td>SPBU 301 Sport Sales/Marketing</td>
</tr>
<tr>
<td>BUSI 231 Business Law</td>
<td>SPBU 390 Junior Seminar</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>SPBU 435 Sport Ethics</td>
</tr>
<tr>
<td>BUSI 316 Quant. Methods for Business</td>
<td>BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>SPBU 220 Coaching Theory</td>
<td>FINA 312 Business Finance</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
</tr>
<tr>
<td><strong>TOTAL: 15</strong></td>
<td><strong>TOTAL: 16</strong></td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBU 3XX Sport Analytics Theory &amp; Practice</td>
<td>SPBU 498 Internship in Sport Business</td>
</tr>
<tr>
<td>SPBU 460 Sport Law</td>
<td>BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>UNIV 459 or 460 University Capstone 2.XACapstone</td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td>BUSI 407 Global Dimensions of Business</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL: 15</strong></td>
<td><strong>TOTAL: 12</strong></td>
</tr>
</tbody>
</table>

### Additional Requirements

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. In order to receive credit toward completion of the Liberal Learning Outcomes and the Sport Analytics major requirements for graduation, a student must achieve a grade of “C” or higher in each Sport Business course. Students must also pass the Sport Analytics Major Project as part of SPBU 498 in the final semester of the senior year.

### Completing a Double Major and/or an Associate Degree in Business

The design of the Sport Analytics major encourages students to complete a second major or a minor in another field through judicious selection of elective courses. For example, a student may decide to obtain a second major in a business major or in an outside field such as Communications. Sport Analytics majors will also complete all the requirements for a bachelor’s degree in Business Administration (BSBA) while pursuing their major. Students should consult with program faculty to select all coursework that will support the Sport Analytics major.
The Sport Business major is an in-seat residential program on the Charleston campus.

Mission
The University of Charleston Sport Business program strives to provide our students with progressive learning opportunities that will enhance their communication, critical thinking, creativity, and teamwork skills. In addition, students will be actively involved in experiential learning experiences that challenge their acquired skills and prepare them to contribute productively in their chosen communities.

From the Faculty
The Sport Business major will gain academic, experiential and practical knowledge to prepare them for the continually growing sport industry. The Sport Business curriculum is designed to prepare graduates for positions in areas such as intercollegiate and interscholastic athletic programs, professional sport organizations, sport marketing agencies, municipal management, facility and event management and entrepreneurship development. SPBU Majors are encouraged to be actively involved in supporting UC athletics and the surrounding sport’s community.

Features
- In the last semester of the senior year, the student will complete an internship in the field of sport business anywhere in the United States or internationally.
- Practical-based instruction from academic professionals with experience in the sport industry. Experiential opportunities are included to gain applied experience outside the classroom.
- Class assignments that prepare students for the work that is required in the sport industry; in-class work is focused on the application of knowledge gained.
- A 45-credit core for the Business Administration degree (BSBA) that prepares students for successful management, administrative and leadership roles in sport business and business administration.
- An option for a Sport Business minor that consists of 18 hours in Sport Business courses as specified in the SPBU minor section below.

From the Faculty
The Sport Business program blends Liberal learning, Business, and Sport Business courses in a curriculum designed to prepare graduates for positions in areas such as intercollegiate and interscholastic athletic programs, professional sport organizations, sport marketing agencies, facility management, recreation management and entrepreneurship development.

Program Outcomes
Business Administration Core Outcomes
The graduate will:
1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.
Sport Business Major Outcomes
The graduate will:
1. Exhibit team building and group leadership skills in varying capacities, environments and levels of responsibility.
2. Actively apply written, public speaking and personnel management skills in sport industry environments.
3. Demonstrate the ability to locate, evaluate and effectively utilize research information as a sport industry professional.

What You Will Study
The Sport Business major is part of the B.S. in Business Administration degree. This major consists of a foundational business administration core of 45 credits and 38 credits of Sport Business major courses which include experiential learning opportunities and a diverse selection of sport business classes to prepare the graduate for a career in the sport industry. Practicum and Internship experiences are required and allow the student to work with a sport business organization.

The University’s location in the hub of the region’s business, financial, government and medical center opens the door to many practical work experience prospects. An internship in the sport industry is required for graduation. Students are encouraged to pursue regional, national and international sport business internship opportunities.

Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBU 101</td>
<td>Introduction to Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 225</td>
<td>Sport Media</td>
<td>3</td>
</tr>
<tr>
<td>SBPU 250</td>
<td>Social Issues in Sport/Business</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 298</td>
<td>Practicum Experience</td>
<td>1</td>
</tr>
<tr>
<td>SPBU 301</td>
<td>Sport Sales/Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 320</td>
<td>Facility/Event Management</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 360</td>
<td>Sport/Business Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 390</td>
<td>Junior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SPBU 435</td>
<td>Sport Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 460</td>
<td>Sport Law</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 499</td>
<td>Internship in Sport Business</td>
<td>12</td>
</tr>
</tbody>
</table>

**Required Credits in Sport Business Major:** 38

**Total Credits (45 B.S.B.A. Core + 38 SPBU Major):** 83
### Typical Four-Year Student Schedule for Sport Business Major

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
<td>HUMN 101 Introduction to Humanities</td>
</tr>
<tr>
<td>BUSI 215 Information Systems</td>
<td>SPBU 101 Introduction to Sport Business</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I*</td>
<td>COMM 102 Freshmen Writing II*</td>
</tr>
<tr>
<td>MATH 120 Intermediate Math (if needed)</td>
<td>SPCH 103 Fundamentals of Oral Communication</td>
</tr>
</tbody>
</table>

**TOTAL:** 13 **TOTAL:** 17

* COMM 101, COMM 102 are embedded in NSCI 1XX, HUMN 1XX courses.

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART/ICOM 230, ART 100, 231, 250, HIST 211</td>
<td>ACCT 202 Principles of Accounting II</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>SPBU 225 Sport Media/Information</td>
</tr>
<tr>
<td>SPBU 298 Practicum Experience</td>
<td>BUSI 241 Business Careers &amp; Communication</td>
</tr>
<tr>
<td>BUSI 231 Business Law</td>
<td>MGMT 311 Principles of Management</td>
</tr>
<tr>
<td>BUSI 202 Principles of Macroeconomics</td>
<td>HIST 212 World Cultures</td>
</tr>
</tbody>
</table>

**TOTAL** 16 **TOTAL** 18

#### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBU 320 Facility/Event Management</td>
<td>SPBU 301 Sport Sales/Marketing</td>
</tr>
<tr>
<td>SPBU 360 Sport/Business Psychology</td>
<td>SPBU 390 Junior Seminar</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>SPBU 435 Sport Ethics</td>
</tr>
<tr>
<td>BUSI 316 Quant. Methods for Business &amp; Econ</td>
<td>BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>BUSI 407 Global Dimensions of Business</td>
<td>FINA 312 Business Finance</td>
</tr>
</tbody>
</table>

**TOTAL** 15 **TOTAL** 16

#### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 450 Business Strategy</td>
<td>SPBU 499 Internship in Sport Business**</td>
</tr>
<tr>
<td>SPBU 460 Sport Law</td>
<td></td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone 2.XA Capstone</td>
<td></td>
</tr>
<tr>
<td>MGMT 420 Organizational Behavior</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL:** 13 **TOTAL:** 12

**Minimum GPA requirement is 2.5 overall to be considered for the 12-hour internship. Students who do not meet that requirement or choose to opt out of the full-time internship will have a 3-credit internship or independent study with a major project similar to the major project interns develop at the work site. The remaining 9 credits will be chosen in consultation with the program director from upper-level SPBU, MGMT, FINA, MRKT, and BUSI courses.
Additional Requirements

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. In order to receive credit toward completion of the Liberal Learning Outcomes and the Sport Business requirements for graduation, a student must achieve a grade of “C” or higher in each Sport Business course. Students must also pass the SPBU Major Project as part of SPBU 499 in the final semester of the senior year.

SPORT BUSINESS MINOR

The minor in Sport Business requires the student to complete 18 credit hours of Sport Business (SPBU) coursework as follows:

<table>
<thead>
<tr>
<th>Course and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBU 101 Introduction to Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>Plus, Choose two (2) from the following:</td>
<td>6</td>
</tr>
<tr>
<td>SPBU 250 Social Issues in Sport/Business</td>
<td></td>
</tr>
<tr>
<td>SPBU 225 Sport Media</td>
<td></td>
</tr>
<tr>
<td>SPBU 220 Coaching Theory</td>
<td></td>
</tr>
<tr>
<td>Plus, Choose two (2) from the following:</td>
<td>6</td>
</tr>
<tr>
<td>SPBU 301 Sport Sales &amp; Marketing</td>
<td></td>
</tr>
<tr>
<td>SPBU 310 Recreation/Fitness Management</td>
<td></td>
</tr>
<tr>
<td>SPBU 320 Facility/Event Management</td>
<td></td>
</tr>
<tr>
<td>SPBU 360 Sport and Business Psychology</td>
<td></td>
</tr>
<tr>
<td>Plus, Choose one (1) from the following:</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 435 Sport Ethics</td>
<td></td>
</tr>
<tr>
<td>SPBU 460 Sport Law</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits for SPBU Minor</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Completing a Double Major and/or an Associate Degree in Business

The design of the Sport Business program encourages students to complete a second major or a minor in another field through judicious selection of elective courses. For example, a student may decide to obtain a second major in a Business major or in an outside field such as Communications. Sport Business majors will also complete all of the requirements for a Bachelor’s Degree in Business Administration while pursuing their major. Students should consult with program faculty to select all coursework that will support the Sport Business major.
SPORT MEDIA MAJOR

Dr. Brian Pruegger, Program Director

The Sport Media major is an in-seat residential program on the Charleston campus. Sport Media is an interdisciplinary major blending liberal learning, integrated communication, digital media design, business administration, and sport business courses. The Sport Media pre-professional program consists of a foundational 45-credit core in business administration courses, a sport business core of 27 credits, and a diverse selection of communications and digital media design courses to prepare the graduate for media/communication opportunities in the sport industry. Classes also provide practicum opportunities, service learning and internship experiences that allow the student to work and gain experience with sport media organizations. The program will culminate in a bachelor’s degree in Business Administration with a major in Sport Media. The program is located in Charleston, WV and is closely aligned with UC athletics and the Sports Information Director (SID) in offering students experiential education throughout the four-year plan.

Features

- In the last semester of the senior year, the student will complete an internship in the field of Sport Media.
- Practical-based instruction from academic professionals with experience in the sport industry. Experiential opportunities are included to gain applied experience outside the classroom.
- Class assignments that prepare students for the work that is required in the sport industry
- In-class work is focused on the application of knowledge gained.
- A 45-credit core for the Business Administration degree (BSBA) that prepares students for successful management, administrative and leadership roles in sport business and business administration.
- An option for a Sport Business minor that consists of 18 hours in Sport Business courses as specified in the Sport Business Minor section.

From the Faculty

The Sport Media program blends communications, digital media design, business administration, and sport business with internship/practicum experiences in a curriculum designed to prepare graduates for sport-related career opportunities, including:

- Sports Information Director (SID)
- Assistant Athletic Director in Media and Communication
- Sports Broadcasting
- Sports Journalism
- Director of Sports Programming
- Media Relations Director
- Social Media Director
- Producer for Sports Programming

Program Outcomes

Business Administration Core Outcomes

The graduate will:

1. Develop technical, professional, and interpersonal skills to maximize effective communication in business and legal environments.
2. Apply ethical frameworks and evaluate global, economic, and cultural environments.
3. Apply and evaluate various critical thinking and decision-making models using appropriate analytical and quantitative techniques.

Sport Media Major Outcomes
The graduate will:
1. Develop, create and implement broadcasting, journalism and public relations skills for sport and event management.
2. Actively apply written, public speaking and personnel management skills in sport industry environments.
3. Demonstrate the ability to locate, evaluate and effectively utilize research information as a sport industry professional.

What You Will Study
The Sport Media major is part of the B.S. in Business Administration degree, requiring a foundational business administration core of 45 credits and 36 credits of Sport Media major courses which include experiential learning opportunities and a diverse selection of sport business classes to prepare the graduate for a career in the sport industry. Practicum and Internship experiences are required and allow the student to work with a sport business organization.

The University’s location in the hub of the region’s business, financial, government and medical center opens the door to many practical work experience prospects. An internship in the sport industry is required for graduation. Students are encouraged to pursue regional, national and international sport business internship opportunities.

Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBU 101</td>
<td>Introduction to Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 225</td>
<td>Sport Media</td>
<td>3</td>
</tr>
<tr>
<td>SBPU 250</td>
<td>Social Issues in Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 298</td>
<td>Practicum Experience (Sophomore and Senior year)</td>
<td>1 + 1</td>
</tr>
<tr>
<td>SPBU 301</td>
<td>Sport Sales/Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 360</td>
<td>Sport/Business Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 390</td>
<td>Junior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SPBU 435</td>
<td>Sport/Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 460</td>
<td>Sport Law</td>
<td>3</td>
</tr>
<tr>
<td>SPBU 498</td>
<td>Internship in Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 221</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>ICOM 305</td>
<td>Public Relations Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>DMDS 311X</td>
<td>Web &amp; Social Media Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Credits in Sport Media Major: 36

Total Credits (45 BSBA Core + 27 SPBU + 6 ICOM + 3 DMDS): 81
## Typical Four-Year Student Schedule for Sport Media Major

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td>NSCI 117 Why Science Matters</td>
<td>HUMN 101 Introduction to Humanities</td>
</tr>
<tr>
<td>BUSI 215 Information Systems</td>
<td>SPBU 101 Introduction to Sport Business</td>
</tr>
<tr>
<td>BUSI 201 Principles of Microeconomics</td>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I*</td>
<td>COMM 102 Freshmen Writing II*</td>
</tr>
<tr>
<td>MATH 120 Intermediate Math (if needed)</td>
<td>SPCH 103 Fundamentals of Oral Communication</td>
</tr>
<tr>
<td><strong>TOTAL:</strong> 13</td>
<td><strong>TOTAL:</strong> 17</td>
</tr>
</tbody>
</table>

* COMM 101, COMM 102 are embedded in NSCI 117, HUMN 1XX courses.

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART/ICOM 230, or ART 100/231/250, or HIST 211</td>
<td>ACCT 202 Principles of Accounting II</td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting I</td>
<td>SPBU 225 Sport Media</td>
</tr>
<tr>
<td>BUSI 231 Business Law</td>
<td>HIST 212 World Cultures II</td>
</tr>
<tr>
<td>BUSI 202 Principles of Macroeconomics</td>
<td>BUSI 241 Business Careers &amp; Communication</td>
</tr>
<tr>
<td>SPBU 298 Practicum Experience I</td>
<td>ICOM 221 Introduction to Journalism</td>
</tr>
<tr>
<td><strong>TOTAL:</strong> 16</td>
<td><strong>TOTAL:</strong> 18</td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMDS 311X Web &amp; Social Media Design</td>
<td>SPBU 301 Sport Sales/Marketing</td>
</tr>
<tr>
<td>SPBU 360 Sport/Business Psychology</td>
<td>SPBU 390 Junior Seminar</td>
</tr>
<tr>
<td>MGMT 311 Principles of Management</td>
<td>SPBU 435 Sport Ethics</td>
</tr>
<tr>
<td>BUSI 316 Quant. Methods for Business</td>
<td>BUSI 317 Business Statistics</td>
</tr>
<tr>
<td>General Elective</td>
<td>FINA 312 Business Finance</td>
</tr>
<tr>
<td>SPBU 298 Practicum Experience II</td>
<td>General Elective</td>
</tr>
<tr>
<td><strong>TOTAL:</strong> 16</td>
<td><strong>TOTAL:</strong> 16</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICOM 305 Public Relations Campaigns</td>
<td>SPBU 498 Internship in Sport Business</td>
</tr>
<tr>
<td>SPBU 460 Sport Law</td>
<td>BUSI 450 Business Strategy</td>
</tr>
<tr>
<td>MRKT 321 Principles of Marketing</td>
<td>UNIV 459 or 460 University Capstone</td>
</tr>
<tr>
<td>General Elective</td>
<td>BUSI 407 Global Dimensions of Business</td>
</tr>
<tr>
<td><strong>TOTAL:</strong> 12</td>
<td><strong>TOTAL:</strong> 12</td>
</tr>
</tbody>
</table>

### Additional Requirements

Students must meet all Liberal Learning Outcomes required for graduation from the University of Charleston. In order to receive credit toward completion of the Liberal Learning Outcomes and the Sport Media major requirements for graduation, a student must achieve a grade of “C” or higher in each Sport Business course. Students must also pass the Sport Media Major Project as part of SPBU 498 in the final semester of the senior year.

### Completing a Double Major and/or an Associate Degree in Business

The design of the Sport Media major encourages students to complete a second major or a minor in another field through judicious selection of elective courses. For example, a student may decide to obtain a second major in a business major or in an outside field such as Communications. Sport Media majors will also complete the all the requirements for a Degree in Business administration (BSBA) while pursuing their major. Students should consult with program faculty to select all coursework that will support the Sport Media major.
MILITARY SCIENCE PROGRAM (ROTC)

Michael C. Levy, Director of Military Programs

The Military Science Program is operated cooperatively with West Virginia State University. The program has two components: the Basic Course and the Advanced Course.

Basic Course

The Basic Course is designed for students who either want to try Military Science without obligation for military service, or those who want to qualify for entry into the Advanced Course. A number of popular and challenging extracurricular activities are associated with these courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 101 Introduction to Military Science</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 102 Introduction to Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 103 Military Leadership Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 201 Military Leadership Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 150 Basic Physical Fitness and Conditioning (Repeatable – Co-requisite with MSCI 201)</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 202 Military Leadership Laboratory III</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 150 Basic Physical Fitness and Conditioning (Repeatable – Co-requisite with MSCI 202)</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 203 Military Leadership Laboratory IV</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

Advanced Course

The Advanced Course is open only to students who have completed the Basic Course, or to those who have earned placement credit for the Basic Course through various methods – typically through prior military service or MSCI 210 Camp Challenge, also known as the Leadership Training Course (LTC).

Students enrolled in the Advanced Course receive a stipend of $200 or more per month during the academic year, or as otherwise indicated when contracting with the military.

The Advanced Course sequence is designed to qualify a student for a commission as an officer in the United States Army. Students must complete MSCI 310 ROTC Advanced Camp during the summer, usually between the junior and senior years. The courses must be taken in sequence unless otherwise approved by the Professor of Military Science.

The course sequence is shown in the table below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 210 Camp Challenge (LTC)</td>
<td>0-6</td>
</tr>
<tr>
<td>MSCI 250 Basic Physical Fitness and Conditioning</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 251 Basic Physical Fitness and Conditioning</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 301 Leading Small Organizations I</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 302 Leading Small Organizations II</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 303 Advanced Course Leadership Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 304 Advanced Course Leadership Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 310 ROTC National Advanced Leadership Course (NALC)</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>14-20</strong></td>
</tr>
</tbody>
</table>
BACHELOR OF SCIENCE IN CYBERSECURITY MAJOR

Dr. Matthew D. Gonzalez, Program Director

Mission

The mission of the BSCS is to prepare graduates with the ability to apply learned skills and experiential knowledge of security technology to make a significant contribution to the information security of individuals, corporations, governmental services and the national community.

Program Description

The Bachelor of Science in Cyber Security is a 2-year, online degree completion program that can be taken full time or part time and is designed for working adults who already have some college credit. Graduates will be prepared to contribute to and lead others in the quickly evolving dimensions of Information Technology (IT) related to cyber security. The Program provides opportunities for students to acquire the knowledge, skills, and experience necessary for demonstration of competency in the field of cyber security at the baccalaureate level.

Unique Strengths of the Program

- Graduates will be prepared to contribute to and lead others in the quickly evolving dimensions of Information Technology (IT) related to cybersecurity.
- Graduates will be prepared to conduct the seven main categories of cyber operations as defined by the National Cybersecurity Workforce framework. They will be able to: (1) securely provision, (2) operate and maintain, (3) protect and defend, (4) investigate, (5) collect and operate, (6) analyze, and (7) provide oversight and development. Simplified, graduates will be prepared for a variety of careers in the rapidly growing industry of cybersecurity.
- The National Cybersecurity Workforce Framework and U.S. Department of Labor have identified potential job opportunities for graduates of cybersecurity programs that include, but are not limited to:
  - Information Security Analyst
  - Information Systems Security Engineer
  - Intrusion Detection System (IDS) administrator, engineer, or technician
  - Network Administrator
  - Computer Crime Investigator
  - Cyber Trainer
  - Chief Information Security Officer (CISO)

Program Outcomes

The graduate will:
1. Establish and supervise legal and ethical practices in the cybersecurity arena;
2. Develop and implement a comprehensive cybersecurity strategic plan for individuals, corporations, governmental agencies, or the national community;
3. Detect, assess, and remediate ongoing cybersecurity threats and vulnerabilities;
4. Effectively communicate cybersecurity threats and remediation strategies across organizational levels in both verbal and written formats; and
5. Integrate knowledge, software and hardware capabilities, and threat and vulnerability awareness across varying technology formats, such as operating systems, networking, social media, mobile and handheld devices.
Admission Requirements

Applicants must gain general admission to the university, have a 60-credit associate degree in Cybersecurity or another technology-related field from a regionally accredited college or university or have a minimum of 60 semester credit hours with the primary focus on technology. The 60 credits must include 9 credits of prerequisite courses or certifications as noted below. Applicants must have a minimum GPA of 2.0.

Degree Requirements

- Completion of all University of Charleston Liberal Learning Outcomes;
- Completion of 125 credits, including transfer credit;
- Completion of 24 credits within UC’s core cybersecurity curriculum;
- Completion of one of the following:
  - 21 credits (seven courses) to complete a minor in Business Administration and satisfy prerequisites for UC’s Master of Business Administration (MBA) program; or
  - 18 credits (six courses) to complete a Minor in Organizational Leadership.

Curriculum

Students in the Cybersecurity program complete prerequisite courses (9 credits), foundational courses (31 credits), Cyber required courses (9 credits), Cyber elective courses (15-18 credits), minor selection (18-21 credits), and general electives (38 credits), for a total of 120-126 credits.

<table>
<thead>
<tr>
<th>Prerequisite Cybersecurity Courses (9 transfer credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Computers (or A+)</td>
<td>3</td>
</tr>
<tr>
<td>Networking Basics (or Net +)</td>
<td>3</td>
</tr>
<tr>
<td>Security Concepts (or Security +)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foundational Courses (31 credits)*</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101: Freshman Writing I</td>
<td>3</td>
</tr>
<tr>
<td>COMM 102: Freshman Writing II</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 103: Oral Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>SSCI 105: Issues in Social Science</td>
<td>3</td>
</tr>
<tr>
<td>HIST 212: World Cultures II</td>
<td>3</td>
</tr>
<tr>
<td>HUMN 101: Intro to Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ENGL XXX: Literature Course</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 112 or 117: Science Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 116: Survey of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 or 460 University Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

* Some foundational course requirements may be met with transfer credits; this will vary by student.

<table>
<thead>
<tr>
<th>Required Cyber Courses (9 credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYBR 310 Cybersecurity Strategy</td>
<td>3</td>
</tr>
<tr>
<td>CYBR 440 Advanced Security Trends</td>
<td>3</td>
</tr>
<tr>
<td>CYBR 450 Cybersecurity Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>
### Elective Cyber Courses (15-18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYBR 320 Ethical Hacking &amp; Countermeasures (Certified Ethical Hacker)</td>
<td>3</td>
</tr>
<tr>
<td>CYBR 330 Incident Handler</td>
<td>3</td>
</tr>
<tr>
<td>CYBR 340 Security Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CYBR 410 Certified Information Systems Security Professional - Phase I</td>
<td>3</td>
</tr>
<tr>
<td>CYBR 415 Certified Information Systems Security Professional - Phase II</td>
<td>3</td>
</tr>
<tr>
<td>Elective Agreement (e.g. COSMO, COG, ETA Information Technology Security Exam, etc.)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15-18</strong></td>
</tr>
</tbody>
</table>

### Minor Electives (18-21 credits)

#### Organizational Leadership Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 151 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 309: Collaborative Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 316: Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 430: Leading Teams: Practicum</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 401: The Learning Organization</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 406: Organizational Development &amp; Change</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

#### Business Administration Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 151: Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201: Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202: Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 201: Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FINA 312: Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 311: Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 321: Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Total credits for program** | **125**

*Students on a track to meet the prerequisites for entering the Master of Business Administration (MBA) program may substitute BUSI-316 for BUSI-151.*
Mission Statement

The Organizational Leadership program develops individuals for departmental and team leadership using a foundation of liberal education, applying personal and professional knowledge and skills in core leadership competencies to improve effectiveness and teamwork to get results, create change and make a difference for a life of productive work, enlightened living and community involvement and service.

Program Description

The Organizational Leadership degree completion program develops individuals with the skills they need to join the next generation of global leaders by using a foundation of education and applying personal and professional knowledge and skills in core leadership competencies. The courses are designed to develop scholar-practitioners for application of knowledge through dynamic real-world, innovative learning applications and encourage collaboration, team building, critical thinking, and accountability while learning ethical and principle-centered leadership skills. Students may transfer credit from accredited community colleges and post-secondary schools as well as earn additional credit for military training, certifications and other training, which can be used toward your four-year degree.

Unique Strengths of Program

This adult degree completion program is created for the working professional who needs to finish a bachelor's degree to progress in his or her career. It is designed to fit the particular needs, academic interests and existing schedule of the adult learner. The Organizational Leadership program employs the cohort-learning model, not only accomplishes these goals, it provides its students with a network to learning and collaborating professionally long after the students have finished the last class.

The program is designed in a convenient format combining online meetings, facilitated weekly discussions, team projects, and individual assignments. Students can also participate in three separate leadership concentrations.

- First Responder/Criminal Justice Leadership
- Healthcare Leadership
- Aviation Leadership

From the Faculty

The Bachelor of Science in Organizational Leadership (ORGL) program takes advantage of our skilled students’ experience. Recognizing that our students are adult learners with very busy lives and a richness of “real-world” experience, we create a learning environment that builds on such. Through dynamic "real world" innovative learning applications, our students learn to bring new ideas and energy as leaders to solve leadership and organizational challenges. Thus, this program constantly and consistently reinforces the value of life-long learning by specifically accommodating the unique needs of the adult learner. The ORGL program has an experiential foundation.
based on the belief that our students are mature learners who know how to learn, accept
the responsibility for their learning experience, and demand challenge from their
program. You will learn from dedicated and student-oriented faculty members, who share
a wealth of professional experience, giving them a unique perspective on the nature and
dynamics of organizations, and who are committed to your success.

**Admission Requirements**

To qualify, students must be admitted to the University of Charleston, transfer at
least 40 semester hours of college credit and have two years of work experience.

**Program Outcomes**

ORGL graduates will be prepared to lead teams and departments in a wide array
of business and organizations in the private and public sector.

The graduate will:

1. Evaluate his or her own performance for self-improvement.
2. Analyze the qualities of a successful team.
3. Analyze and apply leadership styles in various contexts.
4. Implement effective approaches to organizational change.
5. Apply leadership skills to communicate with a variety of audiences in various
contexts

**Concentration Outcomes**

In addition to the program outcomes for all students,

1. First Responder/Criminal Justice concentration - students will be provided vital
contemporary leadership tools to formulate a “Best Practices” approach in
facilitating both problem solving and positive change in the public safety sector
and the communities they serve.

2. Healthcare Leadership concentration - students will examine and learn to integrate
healthcare management principles and expand leadership skills in the healthcare
environment.

3. Aviation Leadership concentration - students will learn to assess and analyze
situations to encourage innovative thinking to continually improve safety in their
operation and the industry.

**Number of credits**

The Organizational Leadership program is a 120-hour degree completion program
targeted to working adults with two years of work experience, who have at least 40
hours of transfer, prior learning, or equivalent credit. The ORGL major is 48 credit
hours spread over 4 semesters of 12 hours credit.

**What is required?**

The ORGL program requires completion of 120 credit hours which includes the 48
Core Leadership credits, 45 hours of Electives, and 27 hours of Foundation Courses.
What you will study

The Organizational Leadership degree requires completion of the following courses:

**CORE REQUIREMENTS - 48 CREDIT HOURS**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGL 150 Introduction to Professional Development</td>
<td>3 credits</td>
</tr>
<tr>
<td>BUSI 151 Introduction to Business</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 301 The Adult Learner</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 302 Principles and Issues of Management</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGL 305 Principles and Issues of Human Resources</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 307 Leadership</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 309 Collaborative Leadership</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 316 Ethics</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGL 401 The Learning Organization</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 402 Organizational Behavior</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 408 Action Research</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 430 Developing Teams</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGL 406 Organizational Development and Change</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 413 Human Resource Development</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 415 Leadership Communication</td>
<td>3 credits</td>
</tr>
<tr>
<td>ORGL 435 Organizational Leadership Senior Capstone</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**ORGANIZATIONAL LEADERSHIP CONCENTRATIONS**

Concentrations allow the student to develop additional expertise in a selected area of study. There are three areas of concentration available to ORGL students. Course requirements for each concentration are outlined below:

**First Responder/ Criminal Justice Concentration**

<table>
<thead>
<tr>
<th>FIRST RESPONDER/CRIMINAL JUSTICE CONCENTRATION – 15 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLFR 302 Principles &amp; Issues of Emergency Planning &amp; Management</td>
</tr>
<tr>
<td>OLFR 316 Ethical Responsibility &amp; Diversity Awareness in Public Safety</td>
</tr>
<tr>
<td>OLFR 415 Leadership Communication &amp; Media/Community Relations</td>
</tr>
<tr>
<td>OLFR 402 Organizational Behavior &amp; Public Trust Formation</td>
</tr>
<tr>
<td>OLFR 435 Leadership Capstone: Assessing the First Responder Culture</td>
</tr>
</tbody>
</table>

**Healthcare Leadership Concentration**

<table>
<thead>
<tr>
<th>HEALTHCARE LEADERSHIP CONCENTRATION – 15 CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLHC 302 Principles &amp; Issues of Healthcare Management</td>
</tr>
<tr>
<td>OLHC 316 Medical Law &amp; Ethics</td>
</tr>
<tr>
<td>OLHC 415 Organizational Behavior in Healthcare</td>
</tr>
<tr>
<td>OLHC 402 Leadership Communication in Healthcare</td>
</tr>
<tr>
<td>OLHC 435 Healthcare Leadership Capstone</td>
</tr>
</tbody>
</table>
## Aviation Leadership Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLAV 302X</td>
<td>Principles &amp; Issues of Aviation Leadership</td>
<td>3</td>
</tr>
<tr>
<td>OLAV 316X</td>
<td>Ethical Considerations for Aviation Leadership</td>
<td>3</td>
</tr>
<tr>
<td>OLAV 415X</td>
<td>Aviation Leadership Communication</td>
<td>3</td>
</tr>
<tr>
<td>OLAV 402X</td>
<td>Organizational Behavior in Aviation</td>
<td>3</td>
</tr>
<tr>
<td>OLAV 435X</td>
<td>Aviation Leadership Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

### ORGANIZATIONAL LEADERSHIP MINOR

The Minor in Organizational Leadership requires the student to complete 18 credits in ORGL. The Minor in Organizational Leadership is delivered online.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 151</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 309</td>
<td>Collaborative Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 401</td>
<td>The Learning Organization</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 402</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 430</td>
<td>Developing Teams</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 406</td>
<td>Organizational Development and Change</td>
<td>3</td>
</tr>
</tbody>
</table>
CRISIS AND EMERGENCY LEADERSHIP MAJOR

Professor Anthony J. Giaimo III, Program Director

Mission Statement

Crisis and Emergency Leadership Program (CEL) is an Associate of Science degree designed to prepare professionals who engage in specialized group and supportive or team-leading functions. Graduates develop a foundational level of the leadership skills and practices for effective communication, problem solving, mission support, supervision and decision making focusing on operational goals, priority setting, planning and managing resources. Course activities lead to personal crisis leadership development of self-awareness, positive self-regard, accountability, capability, communication and responsibility necessary for both individual and team success in critical events.

Unique Strengths of Program

The program is specially designed to enhance Emergency Management and Crisis Leadership abilities for professionals who are responsible for planning, managing, and responding to man-made disasters, terrorist events, and other natural catastrophes. This adult degree completion program is created for the working professional who needs to complete an associate degree to progress in his or her career field. Additionally, it is designed to fit the needs, academic interests and existing schedule of the adult learner.

Students may transfer credit from regionally accredited community colleges and post-secondary schools as well as earn additional credit for military training, certifications and other training. The CEL program, which utilizes the cohort-learning model, not only accomplishes these goals, it provides its students with a network to learning and collaborating professionally long after the students have completed the program. CEL is designed in a convenient format combining online meetings, weekly reading enrichments, facilitated weekly discussions, team projects, and individual assignments.

From the Faculty

The Crisis and Emergency Leadership Associate of Science (CEL) program takes advantage of our skilled students’ experience. Knowing that our students are adult learners with real-life experience, we created a learning environment that integrates and builds on this existing knowledge base. Our students are encouraged to create new and innovative ideas to solve both leadership and organizational challenges. Within the CEL program, students will learn from industry specialists and seasoned leaders who are dedicated and student-oriented faculty members.

Admission Requirements

Students must first gain general admission to the University of Charleston. Students’ transfer credit eligibility depends on each student’s unique cadre of military, civilian college, and other training experiences.

Program Outcomes

The graduate will:
1. Recognize examples of effective crisis leadership skills and “best practices” from analysis of real-life incidents, models and scenarios.
2. Identify positive crisis leadership strategies to facilitate effective team dynamics appropriate for organizational planning, incident response and operations management.
3. Prepare operational and goal setting incident management plans for individual or team guidelines, duties and implementation.
4. Construct and present organizational and operational opportunities for problem solving, improvement integrating innovation, technology, and evidenced based decision making in leadership matters of crisis intervention and management.
5. Relate theories, styles, and application of crisis leadership and management as they contribute to effective communication, situational analysis, teamwork, and overall operational planning.

Number of Credits

Crisis and Emergency Leadership program (CEL) is a 60-credit hour Associate of Science degree designed to prepare professionals who engage in specialized group and supportive or team-leading functions. Transfer credit may be awarded; however, at least 15 credit hours must be completed at the University of Charleston, 10 of which must be earned during the year of graduation.

The required 60 credit-hours includes the 24 Foundational Leadership credits, 22 credit hours meeting the University’s Liberal Learning Outcomes requirements, and 14 hours of Electives.

Graduation requirements include a cumulative University of Charleston grade point average of 2.0 and demonstration of achievement of program outcomes.

What will you study?

The Crisis and Emergency Leadership (CEL) degree requires completion of the following courses to meet program requirements and demonstrate achievement of the University’s Liberal Learning Outcomes: A typical course sequence is provided below.

<table>
<thead>
<tr>
<th>Leadership Courses</th>
<th>Credits</th>
<th>LLOs</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEL 150: Introduction to Homeland Security and Unified Command</td>
<td>3</td>
<td>SSCI 105 (required, 1.1 &amp; 4.1)</td>
<td>3</td>
</tr>
<tr>
<td>CEL 220: Introduction to CBRNE/HazMat Response and Scene Leadership</td>
<td>3</td>
<td>COMM 101 (2.1LLO)</td>
<td>3</td>
</tr>
<tr>
<td>CEL 240: Critical Incident Leadership</td>
<td>3</td>
<td>COMM 102 (2.1LLO)</td>
<td>3</td>
</tr>
<tr>
<td>CEL 260: Managing Terrorist Incidents (Introduction to Terrorism Operations and Mind Set)</td>
<td>3</td>
<td>MATH 116 or 120 (6.1M)</td>
<td>3</td>
</tr>
<tr>
<td>CEL 152: Introduction to Government Financial Operations, Budgeting and Accounting</td>
<td>3</td>
<td>HUMN 101 (3.1LLO, 4.1 LLO)</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 301 (5.1 LLO): The Adult Learner</td>
<td>3</td>
<td>SPCH 103 (2.2F LLO)</td>
<td>3</td>
</tr>
<tr>
<td>OLFR 302: Principles &amp; Issues of Emergency Planning &amp; Mgt.</td>
<td>3</td>
<td>NSCI 117 (6.1S, 4.1)</td>
<td>4</td>
</tr>
<tr>
<td>ORGL 316: Ethics</td>
<td>3</td>
<td>Electives</td>
<td>14</td>
</tr>
<tr>
<td>Total CEL Credits</td>
<td>24</td>
<td>Total LLO &amp; Elective Credits</td>
<td>36</td>
</tr>
</tbody>
</table>
FRONTLINE LEADERSHIP MAJOR

Professor Steven Horsley, Program Director

Mission Statement

The Frontline Leadership degree completion program is designed to prepare professionals carrying out day to day organizational small group and team-leading functions. Graduates develop foundational levels of leadership skills and practices for supervising, coaching and mentoring, goal and priority setting, motivating, and planning and managing resources. Course activities lead to personal development of self-awareness, positive self-regard, accountability, and responsibility necessary for individual success and team participation.

Unique Strengths of Program

This adult degree completion program is created for the working professional who needs to finish an associate degree to progress in his or her career. It is designed to fit the needs, academic interests and existing schedule of the adult learner.

Students may transfer credit from regionally accredited community colleges and post-secondary schools as well as earn additional credit for military training, certifications and other training, which can be used toward your four-year degree. The FLDR program, which employs the cohort-learning model, not only accomplishes these goals, it provides its students with a network to learning and collaborating professionally long after the students have finished the last class. The program is designed in a convenient format combining online meetings, facilitated weekly discussions, team projects, and individual assignments.

From the Faculty

The Frontline Leadership Associate of Science (FLDR) program takes advantage of our skilled students’ experience. Recognizing that our students are adult learners with very busy lives and a richness of “real-world” experience, we create a learning environment that builds on such. Through dynamic "real world" innovative learning applications, our students learn to bring new ideas and energy as leaders to solve leadership and organizational challenges. Thus, this program constantly and consistently reinforces the value of life-long learning by specifically accommodating the unique needs of the adult learner. The FLDR program has an experiential foundation based on the belief that our students are mature learners who know how to learn, accept the responsibility for their learning experience, and demand challenge from their program. You will learn from dedicated and student-oriented faculty members, who share a wealth of professional experience, giving them a unique perspective on the nature and dynamics of organizations, and who are committed to your success.

Admission Requirements

Students must first gain general admission to the University of Charleston. Students’ transfer credit eligibility depends on each student’s unique cadre of military, civilian college, and other training experiences.
Program Outcomes

The graduate will:
1. Recognize examples of leadership skills and practices from real-life scenarios.
2. Prepare a goal setting and achievement plan for individual or team performance.
3. Identify strategies to facilitate effective team dynamics appropriate for the project objectives and context.
4. Construct and present an organizational or operational opportunity for performance improvement integrating innovation, technology, and evidenced based decision making.
5. Relate theories, styles, and practices of leadership and management as they contribute to motivation, teamwork, and functional areas of business.

Number of credits

The Frontline Leadership program is a 60-credit-hour Associate of Science degree completion program targeted to working adults with foundational knowledge and work experience. Transfer credit may be awarded; however, at least 15 credit hours must be completed at the University of Charleston, 10 of which must be earned during the year of graduation.

The required 60 credit-hours includes the 24 Foundational Leadership credits, 21 credit hours meeting the University’s Foundation Courses, and 15 hours of Electives.

Graduation requirements include a cumulative University of Charleston grade point average of 2.0 and demonstration of achievement of program outcomes.

What will you study?

The Frontline Leadership degree requires completion or Transfer Equivalency of the following courses meeting the University’s Foundation Course requirements:

<table>
<thead>
<tr>
<th>Leadership Courses</th>
<th>Credits</th>
<th>LLOs</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLDR 150: Leadership Journeys</td>
<td>3</td>
<td>SSC1 105 Issues in Social Science</td>
<td>3</td>
</tr>
<tr>
<td>FLDR 220: Growing Leaders</td>
<td>3</td>
<td>COMM 101 Freshman Writing I</td>
<td>3</td>
</tr>
<tr>
<td>FLDR 240: Performance Improvement Initiatives</td>
<td>3</td>
<td>COMM 102 Freshmen Writing II</td>
<td>3</td>
</tr>
<tr>
<td>FLDR 260: Leading Project Teams</td>
<td>3</td>
<td>MATH 116 Survey of Math. or 120 College</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 150: Introduction to Professional Development</td>
<td>3</td>
<td>HUMN 101 Introduction to the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 301: The Adult Learner</td>
<td>3</td>
<td>SPCH 103 Oral Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 302: Principles &amp; Issues of Management</td>
<td>3</td>
<td>NSCI 117 Why Science Matters</td>
<td>3</td>
</tr>
<tr>
<td>ORGL 316: Ethics</td>
<td>3</td>
<td>Electives</td>
<td>15</td>
</tr>
</tbody>
</table>

Total FLDR Credits 24
Total LLO & Elective Credits 36
MASTER OF BUSINESS ADMINISTRATION
(hybrid program with weekly meetings in Charleston)

Dr. Rick Ferris, Program Director

The University of Charleston’s MBA program is offered as both a hybrid program with weekly meetings in Charleston, WV and as a fully online program with no residency requirements.

Charleston Hybrid MBA Program Description

The University of Charleston’s MBA Program is an innovative, cohort-based program for current and emerging professionals from diverse backgrounds who want to advance their careers. The MBA curriculum focuses on the practical application of theory, professional development, and an integrated international practicum to provide students the business and problem-solving skills they need for decision making in a constantly changing economic world.

The UC MBA program is offered in a hybrid model with weekly class meeting in Charleston, WV. Our 16-month program is 32 credit hours and is divided into eight 7-week courses designed to accommodate the following groups of students:

- Working professionals and military members with 3+ years of professional work experience.
- Recent undergraduates from all majors (additional MBA courses in Professional Experience required).

The MBA program is designed to increase the analytical, decision-making and managerial business skills of students. Instruction involves cross-functional, cross-industry and boundary-spanning perspectives on management. Students are exposed to problems and solutions in human resource management, business law, managerial accounting and finance, applied marketing, forecasting, international business and trade, supply chain management, operations management, ethics, and strategic management.

Each of the eight core courses features its own separate instructional team made up of faculty, corporate executives, and business owners who serve as guest speakers to enhance the integration of theory and practical solutions using a combination of lectures, seminars, case studies, simulations, workshops, and plant tours.

A key element of the MBA Program is a group capstone project involving the real-world application of economic and business theories. Throughout the MBA program students conduct a strategic analysis of a “Capstone Organization” that partners with the university so students can demonstrate their knowledge from MBA coursework and provide professional reports and presentations that include strategic recommendations to the owner or board of directors of the capstone organization. Past capstone reports have been viewed favorably by the partnering organizations and have resulted in measurable improvements in the organizations.

Complex business cases are also utilized in MBA courses to provide students additional experience in assuming the roles and responsibilities of organization leaders and managers. Students work in teams as they encounter organizational issues, problems, and opportunities in a simulated business environment. The challenges and tasks confronting students are modeled on those faced daily by managers in real-world situations.
Another distinguishing feature of our MBA program is an integrated approximately ten-day international practicum in May or June during the International Business & Trade course. This experience allows students to experience and assess the economic, cultural, political, ethical, financial, and general business challenges and opportunities abroad. Students will meet with host country business leaders, educators, US companies located overseas, and U.S. government personnel stationed in the host country. Recent itineraries have included immersive experiences in China, Ireland, Panama, Brazil, Spain, Vietnam, and Colombia.

Admission Requirements


MBA program admission requirements include:

- Completed MBA application;
- Current resume;
- Bachelor’s degree from a regionally accredited institution and official transcripts showing degree earned;
- Cumulative GPA of at least 2.5;
- Undergraduate prerequisites in accounting, economics, and statistics¹;
- At least three years of professional work experience (or additional MBA Professional Experience courses required);

¹May be met with short-courses from McGraw-Hill and/or equivalent professional work experience

MBA Program Learning Outcomes

At the conclusion of the MBA program, the graduate will:

1. Evaluate business problems by utilizing modeling and systems-thinking to make informed decisions across functional areas.
2. Demonstrate effective written and verbal communication skills, including interpersonal interaction and team behavior.
3. Evaluate and apply principles of executive leadership and managerial development, including an understanding of legal and ethical decision making in a professional environment.
4. Evaluate the impact of contemporary business trends on business decision making.
5. Evaluate, select and apply principles of strategic planning to improve long-term business viability.
6. Appraise and select the various forms of economic systems and models used by world-class organizations in the global marketplace.

Program Structure

The eight core courses in the program are in seven week sessions and are four credit hours each. Classes for Charleston-based hybrid cohorts typically meet for four hours on Tuesday evenings at the Charleston Campus. Students in these hybrid courses will also participate in approximately three hours of on-line activities each week. Recent undergraduates who lack the 3+ years of professional work experience will also enroll in MBA Professional Experience coursework that includes additional weekly meetings and professional practice in the Charleston community; these professional experience courses are two credit hours each for four semesters.
Graduation from the MBA Program requires a minimum cumulative GPA of 3.0 in MBA coursework, calculated using the final grade for each module. Students should maintain a minimum cumulative GPA of 3.0 in the program at all times. Students falling below this level at the end of a module may be placed on academic probation and may be required to repeat a course(s) and do remedial work under the supervision of faculty members. Students must achieve a cumulative GPA of 3.0 by the end of the module following the one in which the probation period was established or be subject for dismissal from the MBA Program. Should the student wish to appeal his/her dismissal, he/she must do so within fourteen calendar days from the date of receipt of the dismissal letter, unless the Program Director grants a delay due to extenuating circumstances.

MBA Core Courses (32 credit hours)

1. MBA 621 Management & Organizational Behavior .......... 4 credits
2. MBA 622 Managerial Accounting & Finance ............... 4 credits
3. MBA 623 Applied Marketing .................................. 4 credits
4. MBA 624 Quantitative Methods .................................. 4 credits
5. MBA 625 International Business & Trade .................. 4 credits
6. MBA 626 Managerial Economics .............................. 4 credits
7. MBA 627 Operations Management .......................... 4 credits
8. MBA 628 Strategic Decision Making ....................... 4 credits

Transfer Credit

Due to use of cohorts and a live capstone accepting transfer credit is limited. Students must take a minimum of 28 credit hours from UC to earn a UC MBA. Due to the use of a cohort model and live capstone typically only MBA-621 may be waived if enough equivalent credit has been earned in that subject area. Accepting transfer credit is normally an exception and each situation is handled on its own merit. In the event of accepting transfer credit the student may be required to audit the course or otherwise participate in several class meetings related to the live capstone experience.

MBA Professional Experience Courses (8 credit hours)

For applicants who lack three or more years of professional work experience, excluding dual degree seeking pharmacy students

1. MBA 591 Professional Experience I .......................... 2 credits
2. MBA 592 Professional Experience II ....................... 2 credits
3. MBA 593 Professional Experience III ...................... 2 credits
4. MBA 594 Professional Experience IV ...................... 2 credits

Online MBA Concentrations (9 credit hours each)

Students enrolled in the Hybrid MBA Program in Charleston have the option to take Online MBA Concentration courses (for additional tuition charges) from the following:
Online Management Concentration: Demonstrate ability to apply management theories to improve performance of organizations.

1. MBA 711 Organizational Behavior .................. 3 credits
2. MBA 712 Operations Management ................. 3 credits
3. MBA 713 Project Management ..................... 3 credits

Online Healthcare Management Concentration: Develop solutions to operational issues in the management of healthcare systems.

1. MBA 721 Healthcare Economics .................... 3 credits
2. MBA 722 Healthcare Informatics .................... 3 credits
3. MBA 723 Healthcare Policy & Ethics ................ 3 credits

Online Business Analytics Concentration: Demonstrate ability to apply business analytics tools to find solutions to business problems.

1. MBA 731 Business Forecasting ...................... 3 credits
2. MBA 732 Data Mining & Visualization ............. 3 credits
3. MBA 733 Predictive Modeling for Managers ... 3 credits

Refunds

The weekly hybrid or online format consists of weekly meetings in addition to required online work each week. Should an MBA student withdraw from the Program, the following policies and procedures pertain:

- **Death of the student, spouse, parent or child; job or position change, including job relocation:** Should any of these events transpire during a module, prorated tuition for that module will be reimbursed for each of the module lessons not yet completed.

- **Dissatisfaction with the Program or any personal reason beyond that listed above:** Should withdrawal of this nature transpire during a module, the student will not be reimbursed for the unfinished module. If withdrawal occurs at the end of a module, the student will not be charged for the next module provided written notification is given to the Program Director in advance of registration for the next module. If the withdrawing student has already participated in the International Practicum, he/she will be responsible for the remaining amount due for their prior participation.

- **Withdrawal Procedure:** Students withdrawing from the Program for any reason must immediately provide the Program Director a written, signed and dated request with rationale. The student will be officially withdrawn when the required notification has been recorded in the Student Solutions Center. The student will be notified in writing once the withdrawal is official.

- **For Students Using DOD Tuition Assistance** Department of Defense Instruction (DoDI) 1322.25, "Voluntary Education Programs: The Department requires the return of unearned TA funds on a proportional basis through at least the 60 percent portion of the course regardless of the reason for withdrawal (service-related or otherwise). The return of any TA funds will be returned directly to the military service, not to the service member. The requirement to return unearned TA funds on a proportional basis applies to the TA portion only. Any calculation performed by the institution would consider only TA program funds. For example, the Service
paid $250.00 and the student paid $30.00 out-of-pocket. In this scenario, if the student withdrew at the 60 percent point and the institution's return of unearned TA policy calls for a 10 percent return of TA funds at that point, the institution would return $25 (10 percent of $250) to the Service. The Department provided flexibility inherent in the use of the language "proportional" (vice pro-rated) to allow educational institutions to align their institutional refund policies with the return of unearned TA funds. The Department encourages educational institutions to particularly work with service members that stop attending due to a military service obligation in identifying solutions that will not result in a student debt for the returned portion. (Created: June 05, 2014)

Contact Information can be found:
http://www.ucwv.edu/academics/master-of-business-administration/
ONLINE MASTER OF BUSINESS ADMINISTRATION

Dr. Rick Ferris, Program Director

Program Description

The University of Charleston’s Online MBA Program is an innovative program for current and emerging professionals from diverse backgrounds who want to advance their careers. The Online MBA curriculum focuses on the practical application of theory to provide students the business and problem-solving skills they need for decision making in a constantly changing economic world.

The UC Online MBA program is offered fully online with six starts per year. Our program is 33 credit hours and is divided into eleven seven-week courses designed to accommodate the following groups of students:

- Working and emerging professionals, and military members, with professional work experience
- Recent undergraduates and emerging professionals from all undergraduate majors
- UC PharmD or Physician Assistant (PA) students who have completed their first year of pharmacy or PA school, take MBA coursework as a PharmD or PA student, and complete their PharmD (or PA) and MBA degrees at the same time.

The Online MBA program is designed to increase the analytical, decision-making and managerial business skills of students. Instruction involves cross-functional, cross-industry and boundary-spanning perspectives on management. Students are exposed to problems and solutions in human resource management, business law, managerial accounting and finance, applied marketing, forecasting, international business and trade, financial management, ethics, strategic management, and a concentration area.

Complex business cases are also utilized in MBA courses to provide students additional experience in assuming the roles and responsibilities of organization leaders and managers. Students work in teams as they encounter organizational issues, problems, and opportunities in a simulated business environment. The challenges and tasks confronting students are modeled on those faced daily by managers in real-world situations.

Our Online MBA program is strategically designed to provide the flexible learning environment and quality learning experience adult learners need to balance life/work needs and compete in today’s business environment. Flexibility is provided with a rapid admissions process; six starts per year; 7-week terms; an asynchronous delivery; and possible degree completion in one year for highly motivated students. The high quality of our program is evidenced by a technology and media-rich online learning environment; world-class industry expert instructors and faculty; an applied learning environment; opportunities for engaging learning experiences with faculty, industry leaders, and classmates; and highly-valued concentrations.

Another distinguishing feature of our Online MBA program is an engaging international learning experience as part of an International Business & Trade course. Students in this course will have the option to either (1) be guided through a course...
assignment to assess the economic, cultural, political, ethical, financial, and general business challenges and opportunities abroad in the context of trade environments for the U.S. and a foreign country; or (2) travel abroad with faculty and classmates for an optional ten-day international practicum in summer A term during the International Business & Trade course. This international travel allows students to experience and assess the economic, cultural, political, ethical, financial, and general business challenges and opportunities abroad. Students will meet with host country business leaders, educators, US companies located overseas, and U.S. government personnel stationed in the host country. Recent itineraries have included the China, Ireland, Panama, Brazil, Spain, Vietnam, and Colombia. The travel component does require additional fees above the Online MBA tuition for the International Business & Trade course.

Admission Requirements


Online MBA program admission requirements include:

- Completed MBA application;
- Current resume;
- Bachelor’s degree from a regionally accredited institution and official transcripts showing degree earned¹;
- Cumulative GPA of at least 2.5;
- Undergraduate prerequisites in accounting, economics, and statistics²;

¹May be waived for qualified PharmD and PA students

²May be met with short-courses from McGraw-Hill and/or equivalent professional work experience

Online MBA Program Learning Outcomes

At the conclusion of the MBA program, the graduate will:

1. Evaluate business problems by utilizing modeling and systems thinking to make informed decisions across functional areas.
2. Demonstrate effective written and verbal communication skills, including interpersonal interaction and team behavior.
3. Evaluate and apply principles of executive leadership and managerial development, including an understanding of legal and ethical decision making in a professional environment.
4. Evaluate the impact of contemporary business trends on business decision making.
5. Evaluate, select and apply principles of strategic planning to improve long-term business viability.
6. Appraise and select the various forms of economic systems and models used by world-class organizations in the global marketplace.

Program Structure

The program is available fully online. The program offers, but does not require, weekly check-ins to engage with instructors and classmates; check-ins will be recorded
for later viewing for those unable to attend. The eight core courses in the program are in 7-week sessions and are three-credit hours each. The capstone experience of the online MBA program is the Strategic Decision Making course which should be taken during the student’s last semester. The program is designed to be completed in 16-months and students may choose from available concentrations. Highly motivated students interested in a fast-track may be able to complete our online MBA in as little as one calendar year. Graduation from the MBA Program requires a minimum cumulative GPA of 3.0 in MBA coursework, calculated using the final grade for each course. Students should maintain a minimum cumulative GPA of 3.0 in the program at all times. Students falling below this level at the end of a course may be placed on academic probation and may be required to repeat a course(s) and do remedial work under the supervision of faculty members. Students must achieve a cumulative GPA of 3.0 by the end of the academic term following the one in which the probation period was established, or they may be dismissed from the MBA Program. Should the student wish to appeal his/her dismissal, he/she must do so within fourteen calendar days from the date of receipt of the dismissal letter, unless the Program Director grants a delay due to extenuating circumstances.

Online MBA Core Courses (24 credit hours)
1. MBA 671X Management.................................................3 credits
2. MBA 672X Managerial Accounting.................................3 credits
3. MBA 673 Applied Marketing...........................................3 credits
4. MBA 674 Quantitative Methods for Business & Economics ....3 credits
5. MBA 675 International Business & Trade .........................3 credits
6. MBA 676 Managerial Economics ....................................3 credits
7. MBA 677 Managerial Finance .........................................3 credits
8. MBA 678 Strategic Decision Making..............................3 credits

Online MBA Concentrations (9 credit hours each)

In addition to the Online MBA core courses, online MBA students must choose one concentration (9 credits) from the following:

Management Concentration: Demonstrate ability to apply management theories to improve performance of organizations.
1. MBA 711 Organizational Behavior.................................3 credits
2. MBA 712 Operations Management.................................3 credits
3. MBA 713 Project Management .....................................3 credits

Healthcare Management Concentration: Develop solutions to operational issues in the management of healthcare systems.
1. MBA 721 Healthcare Economics ....................................3 credits
2. MBA 722 Healthcare Informatics .................................3 credits
3. MBA 723 Healthcare Policy & Ethics ............................3 credits

Business Analytics Concentration: Demonstrate ability to apply business analytics tools to find solutions to business problems.
1. MBA 731 Business Forecasting ....................................3 credits
2. MBA 732 Data Mining & Visualisation ............................3 credits
3. MBA 733 Predictive Modeling for Managers ..................3 credits
Transfer Credit

Students must take a minimum of nine total credit hours from the University of Charleston, three of which must be the MBA 678 capstone course.

Transfer credit up to a maximum of 24 credit hours from a regionally accredited university may be accepted (subject to approval by the MBA Program Director). Students must take the MBA 678 capstone course and at least two other courses at the University of Charleston to receive their online MBA from the University of Charleston.

Refunds

The weekly hybrid or online format consists of weekly meetings in addition to required online work each week. Should an MBA student withdraw from the Program, the following policies and procedures pertain:

- **Death of the student, spouse, parent or child; job or position change, including job relocation:** Should any of these events transpire during a course, prorated tuition for that course will be reimbursed for each of the course lessons not yet completed.

- **Dissatisfaction with the Program or any personal reason beyond that listed above:** Should withdrawal of this nature transpire during a course the student will not be reimbursed for the unfinished course. If withdrawal occurs at the end of a course, the student will not be charged for the next course provided written notification is given to the Program Director in advance of registration for the next course. If the withdrawing student has already participated in the International Practicum, he/she will be responsible for the remaining amount due for their prior participation.

- **Withdrawal Procedure:** Students withdrawing from the Program for any reason, must immediately provide the Program Director a written, signed and dated request with rationale. The student will be officially withdrawn when the required notification has been recorded in the Student Solutions Center. The student will be notified in writing once the withdrawal is official.

- **For Students Using DOD Tuition Assistance** Department of Defense Instruction (DoDI) 1322.25, "Voluntary Education Programs: The Department requires the return of unearned TA funds on a proportional basis through at least the 60 percent portion of the course regardless of the reason for withdrawal (service-related or otherwise). The return of any TA funds will be returned directly to the military service, not to the service member. The requirement to return unearned TA funds on a proportional basis applies to the TA portion only. Any calculation performed by the institution would consider only TA program funds. For example, the Service paid $250.00 and the student paid $30.00 out-of-pocket. In this scenario, if the student withdrew at the 60 percent point and the institution's return of unearned TA policy calls for a 10 percent return of TA funds at that point, the institution would return $25 (10 percent of $250) to the Service. The Department provided flexibility inherent in the use of the language "proportional" (vice pro-rated) to allow educational institutions to align their institutional refund policies with the return of unearned TA funds. The Department encourages educational institutions to particularly work with service members that stop attending due to a military service obligation in identifying solutions that will not result in a student debt for the returned portion. (Created: June 05, 2014)

Contact Information can be found at: [http://www.ucwv.edu/academics/master-of-business-administration/](http://www.ucwv.edu/academics/master-of-business-administration/)
MASTER OF SCIENCE IN CYBERSECURITY

Dr. Matthew D. Gonzalez, Program Director

Mission

The mission of the Masters of Science in Cybersecurity is to educate graduates to make a significant contribution, with a commitment toward to moral purpose and productive work, within the information security community in support of individual, corporation, governmental services and organizational strategic goals.

Program Highlights

The Master of Science in Cybersecurity program is built to expand upon the undergraduate Cybersecurity program, while providing bachelor’s degree prepared individuals the opportunity to gain additional knowledge, skill and experience, and establish competency in the field of cybersecurity at the graduate level.

- Graduates will be prepared to contribute to and lead others in quickly evolving areas of cybersecurity, including strategy, planning and program management.
- The Cybersecurity program covers seven main categories of cyber operations, in alliance with The National CyberSecurity Workforce Framework. Graduates will be prepared to conduct the following cybersecurity roles in organizations: (1) securely provision, (2) operate and maintain, (3) protect and defend, (4) investigate, (5) collect and operate, (6) analyze, and (7) oversight and development.
- Graduates will focus strongly on the oversight and development of cybersecurity initiatives preparing them for a variety of managerial and leadership careers in the rapidly growing industry of cybersecurity.
- The National Initiative for Cybersecurity Careers and Studies indicates immediate demand for this profession. Graduates can anticipate employment in corporate, government and military organizations.

Admission Requirements

Applicants to the program must have completed a Bachelors degree in Business, Information Technology, or a related Information Sciences field at a regionally accredited institution of higher education. Technological literacy gained from prior coursework is imperative for success in the program. No entrance examinations are required, as proof of prior performance and recommendations are used as entrance assessments.

What You Will Study

The Masters of Science in Cybersecurity will provide leaders of public and private organizations with the ability to:

1. Strategize the development of security programs, policies and information management techniques.
2. Support the mission of organizations through program and strategic level planning.
3. Analyze the demands of systems security and practiced methodologies for protecting data integrity and confidentiality.
4. Synthesize a variety of challenging organizational, legal, and technological concepts in relation to cybersecurity at a Program level.

5. Exhibit security theories and applications learned throughout the MSCS degree, by developing a strategic proposal demonstrating a security and information management strategy.

**Degree Requirements**

The graduate program consists of 30 credit hours.

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MASTER OF SCIENCE IN STRATEGIC LEADERSHIP

Dr. Kristen Dugan, Program Director

Mission Statement

The GSL program prepares motivated adult learners for strategic leadership roles as scholar-practitioners engaged in productive work, enlightened living, and community service.

Unique Strengths of the Program – for Students

GSL graduates are prepared to strategically and purposefully lead others as they engage in leadership roles in a variety of organizational settings. More specifically, the degree is designed for learners with an undergraduate degree in any discipline from a regionally accredited institution. They are fully enabled for a life of productive work, enlightened living, lifelong learning and community involvement and service by using the foundation of a liberal education and having earned a competency-based master’s degree in strategic leadership.

From the Faculty: brief statement about the program

The University of Charleston’s program in strategic leadership (SL) is targeted for adults working in leadership positions and is based on the proposition that leadership relates closely to the ability of one to influence the behavior of others to affect organizational outcomes. The SL program is designed to enhance the participant’s ability to solve real problems, in real time and for real organizations. Throughout the program, participants will be asked to analyze and make recommendations about actual organizational events. Our hope is that the program’s participants will approach these challenges and problems the same way they would at their organization.

Admission Requirements

To be admitted to the Strategic Leadership program candidates must possess a bachelor’s degree from a regionally accredited college or university, with a minimum GPA of 3.0 for full admission or 2.5 to be considered for provisional admission. A GPA of less than 2.5 will require additional supportive documentation to be considered for provisional admission. There is no GRE or GMAT score requirement.

Program outcomes

The program will develop your ability to lead through a combination of leadership theory and practice. The graduate will:

1. Assess, develop, and articulate reasoned judgments on strategic issues
2. Design integrated strategic plans for organizations, communities, or institutions related to the graduate’s area of specialization
3. Develop processes for sustainment of strategic capacity of organizations, communities or institutions
4. Create processes for ensuring engagement and accountability in implementation of strategic initiatives
5. Synthesize learning from program and personal experiences to create a plan for continued growth as a strategic leader in your area of specialization for organizations, communities or institutions
What will you study?

This research-based professional degree focuses on leadership across disciplines and boundaries in a global environment. Students can expect to understand the leadership competencies that are informed by (1) research in the current literature on leadership, social and behavior sciences, business, (2) the leadership competency lists developed by government, not-for-profit organizations, institutions of higher learning, and (3) analyses of the impact of societal changes on organizations and their challenges for leadership in the future. Throughout the program, students will use an organizational assessment tool to observe and evaluate organizational leadership, strategy, customer focus, knowledge management, workforce, operations, and results. The capstone course focuses on analyzing and interpreting the findings and making recommendations for future actions based on strategic leadership theories and the research.

Number of credits

The GSL major requires a total of 36 credit hours which consists of 27 credit hours in SL core courses and 9 credit hours from one of the specialization areas. Transfer students must complete at least 25% of the credit hour requirements with the University of Charleston. A cumulative GPA of 3.00 is required for graduation.

Required Core Courses:

- GSL 510 Art and Science of Strategic Leadership ................. 3 Credits
- GSL 512 The Leadership Challenge ......................................... 3 Credits
- GSL 610 Strategic Thinking .................................................... 3 Credits
- GSL 507 Reframing Leadership ............................................... 3 Credits
- GSL 506 The Human Side of Organizations ............................ 3 Credits
- GSL 504 Organization, Group & Team Leadership ................. 3 Credits
- GSL 601 Organizational Theory ................................................ 3 Credits
- GSL 629 Research Methods .................................................... 3 Credits
- GSL 605 Organizational Performance ...................................... 3 Credits

Specialization Courses

**Strategy as Practice**
- SLSP 640 Understanding Strategic Context .......................... 3 Credits
- SLSP 650 Understanding Value and Customers ...................... 3 Credits
- SLSP 690 Strategy as Practice Capstone ............................... 3 Credits

**Business Management**
- SLBM 640 Understanding Strategic Context ......................... 3 Credits
- SLBM 650 Understanding Value and Customers ...................... 3 Credits
- SLBM 690 Business Management Capstone .......................... 3 Credits

**Healthcare Leadership**
- SLHM 640 Understanding Strategic Context ......................... 3 Credits
- SLHM 650 Understanding Value and Customers ...................... 3 Credits
- SLHM 690 Healthcare Management Capstone ........................ 3 Credits

Students in the GSL program can choose one of the above specialization sequences. The specialization consists of 3 courses (9 credit hours).
Strategy as Practice Specialization- SLSP

Designed for those who want to focus as a strategic leader practitioner on how strategy is integrated into daily actions across all levels of an organization, including military and former military members having completed at least the Command Sergeants Major or Captains Career Courses or equivalent. Strategy as Practice students are prepared to lead strategic planning and execution within an organization; critically analyze strategy as practice literature; and assess opportunities for improved strategy.

Business Management Specialization- SLBM

Designed for those who want to focus as an entrepreneurial leader on how strategy is integrated into daily actions across all levels of an organization. SLBM students are prepared to lead strategic design, planning and execution within an organization, likely their own or another small business; critically analyze entrepreneurship, startup and business management literature; and assess opportunities for growth.

Healthcare Management Specialization- SLHM

Designed for mid to upper level healthcare leaders with three or more years of experience. The specialization prepares the student to analyze the present and future healthcare context to design strategic goals and action plans for healthcare organizations.
DOCTOR OF EXECUTIVE LEADERSHIP

Dr. Ruth G. Wylie, Program Director

Mission Statement

The mission of the DEL is to develop leaders capable of integrating theory with practice at the executive level for sustainability and service in organizations, communities or institutions in an increasingly complex world.

Unique Strengths of Program for Students

DEL graduates are able to generate, conserve, and transform leadership knowledge and practice while developing other aspiring leaders to become scholar-practitioners. The DEL accomplishes this purpose by creating an intellectual community that promotes critical thinking and deep reflection, facilitates both creativity and rigor, and develops the research skills necessary for executive leadership, scholarly integration and lifelong learning and community service.

From the Faculty

The DEL is premised on the groundbreaking research done by the Carnegie Foundation’s Center for the Advancement of Teaching on the current state of doctoral education in the United States. The purpose of the DEL is to produce the next generation of senior-level leaders who are both scholars and practitioners and can integrate theory and practice in the field of leadership. Such future leaders are necessary to ethically guide institutions, organizations, and communities in an increasingly complex, dynamic, and diverse world. These scholar-practitioners will be capable of generating, conserving, and transforming leadership practice and knowledge and developing other aspiring leaders to become leadership scholar-practitioners.

Admission Requirements

To apply for admission to the program, candidates must complete an application packet that includes the application for admission, official transcripts from all colleges and universities attended for graduate coursework, a five- to seven-page discussion paper describing the applicant’s leadership-related goals and anticipated contribution to a doctoral leadership cohort, a resume detailing a minimum of five years of professional experience in a leadership role, and two letters of academic and professional recommendation. Applicants are required to have a master’s or first professional degree from a regionally accredited institution with at least a 3.00 GPA. Applicants with less than a 3.0 may be considered upon request to the Program Director and Associate Dean. Once the application is complete, the DEL program admissions committee interviews prospective students for acceptance into the program. There is a $50 application fee which is waived for military applicants.

Program Outcomes

In order to achieve the desired program outcome of producing scholar practitioners capable of leading at the executive level the following DEL individual student learning outcomes are established:

1. Sense and shape opportunities for, and threats to, future growth and development through embedding scanning, creative, and learning processes into organizations, communities, or institutions.
2. Make timely judgments to seize opportunities and to bring about those decisions by a) developing and rewarding creative action and b) diminishing assets and processes that no longer add value.

3. Assemble, align, and reconfigure tangible and intangible assets to sustain organizations’-, communities’-, or institutions’ viability for the future.

4. Model, design, and implement scholar-practitioner practices and processes to develop ethical leadership in organizational, community, or institutional contexts.

5. Assess existing research and practices and design, conduct, and interpret research to contribute to the theory and practice of leadership within one’s discipline and in interdisciplinary, multidisciplinary, or transdisciplinary contexts.

6. Generate and critically evaluate new knowledge, conserve the most important ideas and findings that are a legacy of past and current work and engage in the transformational work of communicating knowledge responsibly to others.

What will you study?

The Doctor of Executive Leadership is a 58-credit-hour course of study that focuses on leadership in context across disciplines and boundaries in a global environment. The program sequence includes 27 leadership core credits, 12 research credits, 10 credits for pro-seminars and portfolio and 9 credits for the dissertation. Continuous enrollment is required, although a request for a leave of absence may be requested. The Dissertation Continuation course is 3 credits for the first semester enrollment and 1 credit each semester thereafter until degree completion. The program offers courses by online and blended delivery. Blended courses complete at least 40% of the instructional activities during in-person meetings at least once a month and no less than twice per course. International students with an F1 visa must complete a contract for each course which specifies meeting dates for the course. Transfer credits may be applied toward the degree requirements depending on evaluation of transfer equivalence. Transfer students must complete at least 25% of the credit hour requirements with the University of Charleston.

For a detailed list of courses, please see the Course Listing section of this catalog under “Doctor of Executive Leadership Courses.”

Leadership Core Courses:
- DEL 710 Leadership Theories and Perspectives ........................... 3 Credits
- DEL 720 Leadership in Context ................................................... 3 Credits
- DEL 730 Ethics: Values and Decision Making ............................ 3 Credits
- DEL 740 Organizational Dynamics .............................................. 3 Credits
- DEL 750 Collaborative Leadership .............................................. 3 Credits
- DEL 760 Leadership Development............................................... 3 Credits
- DEL 802 Conceptual Frameworks for Leadership ....................... 3 Credits
- DEL 810 Complexity and Sustainability ...................................... 3 Credits
- DEL 830 Executive Decision-Making........................................... 3 Credits

Research Courses:
- DEL 700 Culture of Inquiry.......................................................... 2 Credits
- DEL 727 Leadership Research and Design Logic ........................ 3 Credits
- DEL 800 Responsible Conduct of Research ............................... 1 Credit
- DEL 805 Quantitative Research ................................................. 3 Credits
- DEL 815 Qualitative Research .................................................... 3 Credits
Dissertation and Pro-seminar Courses:

DEL 900  Creating Portfolios ................................................................. 1 Credit
DEL 901  Dissertation I ................................................................. 3 Credits
DEL 902  Dissertation II ................................................................. 3 Credits
DEL 903  Dissertation III ................................................................. 3 Credits
DEL 904  Dissertation Continuation ............................................. 1-3 Credits
DEL 910  Pro-seminar I: Generating, Conserving & Transforming ...... 3 Credits
DEL 920  Pro-seminar II: Generating, Conserving & Transforming ..... 3 Credits
DEL 930  Pro-seminar III: Generating, Conserving & Transforming ... 3 Credits

Candidacy:

A DEL student should normally complete all Leadership Core courses, successfully defend the Professional Portfolio, and successfully defend the dissertation within three years of entry into the doctoral program.

An extension of one academic year will be granted upon a student’s request, with the Chair’s endorsement, to the Program Director. With endorsement by the Chair, a student may request an extension for one additional academic year. That extension must be approved by the Program Director in consultation with the Associate Dean. If the student fails to complete the degree requirements for the program by the end of the second extension period, the student will be dismissed from the program. Dismissal from the program may be appealed to the Associate Dean who may grant conditional readmission with approval of the Dean.

Failure to maintain continuous enrollment in at least one credit hour from the achievement of candidacy until the dissertation is accepted also will result in loss of candidacy.
The purpose of the Bert Bradford School of Health Sciences is to prepare ethical, competent, safe, and compassionate health care professionals. Three departments make up the Bert Bradford School of Health Sciences:

**Capito Department of Nursing**

NURSING – ADN  
NURSING – BSN  
NURSING – RN-BSN

**Department of Health Sciences**

ATHLETIC TRAINING  
EXERCISE SCIENCE  
HEALTH PROMOTION  
OCCUPATIONAL THERAPY ASSISTANT  
RADIOLOGIC SCIENCE  
RADIOLOGIC TECHNOLOGY

**Department of Physician Assistant**

PHYSICIAN ASSISTANT

Students in the Bert Bradford School of Health Science programs enjoy on-campus clinical classrooms and access to a wide variety of excellent clinical settings. The School’s faculty have developed a unique core of classes designed to give students a common understanding of important health care issues and an appreciation of collegial relationships among the health care professions.

Admission to all Health Science programs is competitive. Students must first be admitted to the University of Charleston and then apply to the Health Science program of interest. Each program has identified requirements and procedures for admitting students. Students who are interested in a given program should contact the program directly and follow the instructions for application. The number of students admitted to each program is limited by faculty resources, availability of clinical sites, and accreditation standards. Program admission numbers may vary from year-to-year.

The curriculum for Health Science programs is intentionally designed to help students succeed in entering the profession of their choice. Students must consult closely with major advisors and program faculty to insure they are following the required prerequisite courses and program sequence.
CAPITO DEPARTMENT OF NURSING

Pamela L. Alderman, EdD, MSN, RN, Department Chair
Amy F. Bruce, DNP, MSN, RN, NE-BC, Director

The Capito Department of Nursing offers the Associate Degree in Nursing (ADN), Bachelor of Science in Nursing (BSN) and the RN-BSN. Graduates completing the ADN and BSN programs are eligible to take the National Council Licensing Examination for Registered Professional Nurses (NCLEX-RN) exam and upon successful completion will be licensed as a Registered Professional Nurse (RN). The RN-BSN program is for individuals who have a current, unencumbered or an active temporary RN license.

For more than 50 years the University of Charleston has offered nursing programs. The ADN program is delivered in a hybrid format that meets every other weekend. This program combines traditional, face-to-face class time with online and out-of-class course work. Students may complete the ADN program in sixteen months.

BSN students have the opportunity to attend a traditional nursing program. Students engage in collegiate life which includes academics, sports, the arts, student life, and other on campus experiences. The BSN program may be completed in four academic years.

Registered Professional Nurses (RN) who want to obtain a BSN degree may do so at the University Charleston. RN’s may continue to work full-time while they complete the degree totally online. Recent graduates of an RN program who have an active temporary license may enroll in the program. The RN-BSN program may be completed within one year of study.

The ADN and BSN programs prepare graduates to take the National Council Licensing Examination for Registered Professional Nurses (NCLEX-RN). Passing this examination allows the graduate to seek employments as an entry level registered professional nurse, who is competent to practice as a direct caregiver to diverse populations in a variety of health care settings. As health care delivery systems grow and change nursing graduates may choose to pursue higher degrees in preparation for advanced levels of practice.

Mission

The mission of the Capito Department of Nursing is to provide quality, evidence-based academic and clinical education that prepares graduates for careers of productive work, enlightened living, and life-long learning as Registered Professional Nurses who deliver safe, compassionate, and competent care to individuals and communities.

Modeled after, and congruent with, the mission, vision and values of the University, the programs, through combined nursing and liberal arts education, prepare graduates in all three of the University’s mission-critical areas:

- Graduates are prepared for a life of productive work as a registered professional nurse;
- The program encourages enlightened living through emphasis on the need for life-long development of evidence-based nursing practice, and embeds information literacy skills in courses delivering the Liberal Learning Outcomes of the University; and,
- Finally, the programs promote community involvement through various projects and promotes service through interaction as registered professional nurses.
The nursing programs provide a solid foundation for advanced education. Nursing programs are guided by the Accreditation Commission for Education in Nursing (ACEN), the American Nurses Association (ANA) Standards and Scope of Practice, the National League for Nursing (NLN), Quality and Safety Education for Nursing (QSEN), and the West Virginia Board of Examiners for Registered Professional Nurses Nurse Practice Act.

Core Ethical Values

The educational philosophy of the University of Charleston’s Nursing programs is based on the National League for Nursing (NLN) Educational Competencies Model and incorporates the seven core values of the National League for Nursing Competencies Framework which includes caring, diversity, ethics, excellence, holism, integrity, and patient centeredness (NLN, 2010). The nursing faculty believe “all nurses should display integrity, respect diversity in all forms, uphold given legal and ethical responsibilities and strive for excellence while promoting caring, holistic, patient centered care” (NLN, 2010).

Accreditation

The Accreditation Commission for Education in Nursing (ACEN) supports the interests of nursing education, nursing practice, and the public by the functions of accreditation. Accreditation is a voluntary, self-regulatory process by which non-governmental associations recognize educational institutions or programs that have been found to meet or exceed standards and criteria for educational quality (ACEN, 2016).

Accreditation is a voluntary peer-reviewed process intended to enhance quality improvement in nursing education (ACEN, 2016). According to ACEN nursing programs with specialized accreditation:

- provide recognition that a nursing education program has been evaluated and periodically re-evaluated by a qualified, independent group of respected and competent peers;
- are gateways to licensure, certification, and eligibility for entitlement programs;
- foster ongoing self-examination, re-evaluation, and focus on the future;
- aid in student recruitment and retention;
- assists employers seeking graduates who are competent nurses;
- facilitate career and educational decision-making;
- promote professional and educational mobility of program graduates; and,
- fulfill the eligibility requirement for applicants seeking advanced certification.

The AND, BSN and RN-BSN nursing programs are accredited by the Accreditation Commission on Education in Nursing (ACEN). The West Virginia Board of Examiners for Registered Professional Nurses (WV RN Board) was established by the West Virginia Legislature to promote and protect public health, safety and welfare. Legal requirements for registered professional nurses are found in the West Virginia Code or Law. Rules have been put into place to make the law more specific. The laws for the WV RN Board are found in WV Code 30-7-1.

It is mandatory all registered professional nursing programs, leading to initial licensure, maintain accreditation and approval by the WV RN Board. The ADN and BSN programs are fully approved by the WV RN Board.
For further information regarding accreditation please contact:

**Accreditation Commission for Education in Nursing (ACEN):**  
3343 Peachtree Road, NE, Suite 850  
Atlanta, GA 30326  
(404) 975-5000  
[www.acenursing.org](http://www.acenursing.org)

**West Virginia Board of Examiners for Registered Professional Nurses (WV RN Board)**  
90 MacCorkle Ave SW Suite 203  
South Charleston, WV 25303  
(304) 744-0900  
[www.wvrnboard.com](http://www.wvrnboard.com)

### Admission Requirements

**All** students must gain admission to the University of Charleston prior to applying for admission to the nursing programs (ADN, BSN, RN–BSN). Please note, individuals who have been convicted of a felony will not be admitted the University of Charleston or the ADN, BSN, or RN-BSN programs.

Admission to the ADN and BSN programs are competitive. In order to be considered for admission the following documents **MUST** be submitted by the application deadline:

- Application to the nursing program;
- Official high school transcript, diploma, GED, or TASC Scores **MUST** be attached to the application to the nursing program.
- Submission of **ALL** official college transcripts demonstrating a grade point average of 2.5 or above; and,
- Successful completion of the ATI Test of Essential Academic Skills (TEAS) entrance exam with a score of 60% or higher.

### Selection

An objective selection process has been developed for the ADN and BSN programs. Selection is based on a point system for qualified applicants focused on those who meet or exceed the admission criteria. Successful applicants will be conditionally admitted to the nursing program. Full admission is contingent upon the following:

1. A complete physical exam stating the applicant is physically and mentally able to function as a nursing student in a clinical setting. If currently undergoing treatment for a disease/disorder, a release from the prescribing physician is also required;
2. Proof of immunizations, and titers if applicable, following the Center for Disease Control guidelines for vaccinations for health care workers. A current list of required vaccines may be found at the following website [www.cdc.gov/vaccines/adults/rec-vac/hcw.html](http://www.cdc.gov/vaccines/adults/rec-vac/hcw.html);
3. Successfully pass a criminal background check and drug screen. Please note, clinical agencies may deny access to students who have a criminal background. Applicants with pending charges at time of application may be denied admission to the program after review by the program director and dean. Individuals convicted of a misdemeanor may or may not be allowed to take the licensing exam upon completion of the nursing program;
4. Meet the technical standards and skills required for nursing professionals. Reasonable accommodations which do not fundamentally alter the nature/scope of the nursing program and do not compromise the safety of clients will be made on an individual basis for students with verified disabilities; and,

5. Have a current American Heart Association BLS Provider CPR certification;

Once admitted to the nursing program the student must:

1. Continue to meet items 1-5 above and provide all documentation to the nursing administrative assistant by the deadlines set, or anytime there is a change in status;
2. Attend the annual orientation to the nursing program;
3. Immediately notify the program director and the West Virginia Board of Examiners for Registered Professional Nurses of any criminal offense. Documentation must be provided to the nursing office immediately upon admission to the program or when the offense occurs; and,
4. Abide by the West Virginia Code and Legislative Rules for Registered Professional Nurses, specifically 19CSR10, Standards for Professional Nursing Practice. Failure to comply with the standards may result in disciplinary action as stated in 19CSR9, Disciplinary Action.

Throughout the program, all nursing students must meet departmental health requirements, criminal background checks, and drug screens. These requirements are congruent with the cooperating clinical agencies. The agencies have the option to make changes annually and as needed due to changing requirements from accreditation agencies and national patient safety standards.

Nursing students must meet all agency requirements in order to participate in clinical laboratory rotations. Students who do not meet the required criteria, or who fail to submit required documentation will not be eligible to participate in clinical rotations with the University’s affiliating agencies. The student will be immediately dismissed from the nursing program.

Transfer

The Capito Department of Nursing accepts transfer students for associate degree, bachelor’s degree, and RN-BSN programs. Students attempting to transfer to the Department of Nursing must first be accepted to the University of Charleston at which time the student must meet all requirements of the University admission office before applying to a nursing program. Students may transfer nursing courses where a ‘C’ or higher has been obtained. Individual consideration for course acceptance will be evaluated prior to transfer credit being confirmed. Students who have taken combination courses that do not have evidence of individual course completion (example: Mental Health, Pediatrics, and Obstetrics) will be required to complete course specific examinations to prove competency:

- Testing out includes using ATI Content Mastery exams (if a content mastery exam exists) or a course proficiency/exit exam.
- Students who are testing out will be given two (2) opportunities to take the ATI Content Mastery exam or the course/proficiency exit exam.
- Students who take the ATI Content Mastery Exam, must obtain a Level 2 or higher.
Where an ATI Content Mastery Exam does not exist, and the student must take a course proficiency/exit exam, the student must achieve an 80%.

Consideration will be given for placement within the curriculum and evaluated by the Capito Department of Nursing Faculty upon evaluation of course work from another nursing program. Students may be asked to test out of subject areas based upon evaluation of coursework being transferred. Final determination of transfer is based on evaluation of transcripts. Transfer students may be required to take exams and/or demonstrate clinical skills in order to verify proficiency and placement. The nursing faculty will assess competency levels for placement in the program. All transfer students must be able to complete the program within 150% of time the first nursing course was taken.

Transfer students enrolled in the ADN program **MUST** complete a minimum of 20 credit hours at the University of Charleston. Students who transfer into the BSN and RN-BSN program **MUST** complete a minimum of 30 credit hours at the University.

**Course Fees and Costs**

Various courses have fees in addition to the standard tuition. These fees are non-refundable and are due at the time of registration. Course fees are assessed for things such as laboratory supplies, computer hardware and software specific to nursing students, and standardized mastery testing. This is not to be understood as a comprehensive list, but these examples are offered to the student for planning purposes. Course fees are subject to change on a yearly basis depending on vendor and program needs.

Initial out-of-pocket costs for admission to the nursing program include a physical exam, criminal background check, drug screens, immunizations, lab tests, titers, uniforms, lab coats, program specific hardware and software, and a lab supply kit that is purchased through the University’s Bookstore. In the final semester, students must plan for costs of application and criminal background check for licensure as a registered professional nurse. These are expenses that are the responsibility of the student.

**Clinical Laboratory Experiences**

Nursing students will be assigned to various health care and community agencies for clinical rotations throughout the program. Clinical assignments will be changed each semester and may vary within a given semester. Students are expected to assume responsibility for transportation to the various agencies. Laboratory times are somewhat inflexible due to agency constraints and coordination with other schools. Additional time in agencies to prepare for clinical rotations is expected in upper-division nursing courses and may not be reflected in scheduled clinical hours. Student must fulfill all clinical commitments.

**Policies for Progression**

Nursing students must achieve a minimum grade of “C” in the theory and a grade of “P” in clinical, laboratory, and/or simulation portion of all nursing courses in order to enroll in the next nursing course in the sequence. If a student fails one component of a nursing course (either theory or clinical, laboratory, and/or simulation) the student will receive the grade earned in each component. To progress to the next nursing course, both components of the course will have to be repeated with achievement of a minimum of
“C” in the theory portion and a “P” in the laboratory portion. All courses must be taken in sequence.

To progress to subsequent semesters of study in nursing, a student must have a University based cumulative GPA of 2.5. Students must achieve a minimum grade of “C” in all courses in order to enroll in the next nursing courses. Successful performance in nursing courses is highly reliant upon content mastered in all previous courses. Students must earn a minimum grade of “C” in all courses. The faculty encourages students to earn the highest grade possible because all course content is integral to nursing course work and supports the development of the knowledge and skill necessary for assuming the role of a professional nurse.

Comprehensive Examination

The faculty of the nursing programs expect nursing students will demonstrate mastery of content before graduation. Standardized content specific exams will be administered throughout the program. These exams include, but are not limited to, the topics of pharmacology, pediatrics, maternity, psychiatric/mental health, medical-surgical, and critical thinking. Successful completion of all standardized exams is required.

To be eligible for graduation, all ADN and BSN students are required to pass a standardized comprehensive assessment during the final semester of the program. This exam is provided by a national testing service. The test is administered by the nursing faculty congruent with the standardized testing and comprehensive assessment of nursing knowledge policy in the Nursing Student Handbook.

Graduation Requirements

Graduation requires the achievement of all coursework with a “C” or higher. Additionally, graduation requires successful completion of the University of Charleston Liberal Learning Outcomes, a comprehensive exit examination within the major, and a cumulative GPA of 2.5 or higher for ADN and BSN students and a cumulative GPA of 2.0 or higher for RN-BSN students.

In order to graduate from the ADN, BSN, or RN-BSN program students must satisfactorily complete all foundation and nursing courses as specified by the curriculum sequence. This requirement helps ensure that students have the knowledge and skills required for program completion.

Nursing students must complete all requirements of the program within 150% of time of enrollment in the first nursing course. Example: ADN students must complete the program within six semesters of enrolling in the first nursing course. BSN graduates must complete the program within six years of enrolling in the first nursing course. In order to graduate from the University of Charleston the student must complete all graduation requirements outlined in the University of Charleston Student Handbook.

Licensure

Graduates of the ADN and BSN who meet eligibility requirements may apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) to become licensed as registered professional nurses. Please note, the West Virginia Board of Examiners for Registered Professional Nurses (WV RN Board) may deny licensure to individuals convicted of a felony, misdemeanor, or who do not meet the standards set forth by the Board.
Students are advised to seek information regarding licensure eligibility requirements directly from the Board of Nursing in the state where they plan to be licensed and/or work. The National Council of State Boards of Nursing (NCSBN) has comprehensive information about the roles and responsibilities of the board for all states and territories. Information regarding state boards of nursing may be found at www.ncsbn.org. Graduates of the RN-BSN program are not required to take a licensing exam as they already hold a valid, unencumbered registered professional nursing license.

ASSOCIATE DEGREE IN NURSING

Features of Distinction

- More than 50 years’ cumulative experience educating over 3000 nurses
- Curriculum based on current standards and evidence-based practices
- Faculty have professional nursing expertise in diverse health care settings
- Innovative and accessible courses intentionally designed to meet diverse health care needs of the community
- Small clinical/lab/simulation sections of 8-10:1 student faculty ratio
- Simulation lab with high-fidelity manikins on campus
- Premier health care facilities utilized for on-going clinical experiences
- Extensive set of electronic library, books, journals and databases accessible online and on mobile devices
- The ADN program is designed to provide the skills and knowledge necessary for graduates to seamlessly pursue RN-BSN completion education
- New student cohorts are accepted each semester
- Completion of 180-hour practicum at a local accredited hospital

End of Program Learning Outcomes (EPSLO)

The National League for Nursing (NLN) Educational Competencies Model revolves around four outcome areas: Human Flourishing, Nursing Judgment, Professional Identify and Spirit of Inquiry. The Nursing Department has identified End of Program Student Learning Outcomes for each outcome area. Upon successful completion of the Capito Department of Nursing, Associate Degree in Nursing program the graduate will be able to:

Graduates of the ADN program will demonstrate achievement of the following:

**Outcome 1: Human Flourishing:** Advocate for patients and families in ways that promote his or her self-determination, integrity and ongoing growth as human beings.

**Outcome 2: Nursing Judgement:** Develop judgements in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and promote the health of patients within a family and community context.

**Outcome 3: Professional Identity:** Implement one’s role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy, and safe quality care for diverse patients within a family and community context.

**Outcome 4: Spirit of Inquiry:** Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for patients, families, and communities.
Student Achievement Data (2018)
- Pass Rate 94.4%
- Employment Rate 100%
- Completion Rate 98%

Admission Requirements
Admission to the ADN program occurs three times per calendar year. Students must gain general admission to the University of Charleston. Students may apply to the ADN program after completion of BIOL 212/BIOL 212L with a grade of a “C” or better. Applicants must score 60% or higher on the TEAS entrance exam and have a cumulative Grade Point Average (GPA) of 2.5 or higher.

Graduation Requirements
Graduation from the ADN program requires completion of all course work with a grade of “C” or better. Students must also maintain a cumulative GPA of 2.5 and successfully complete the ATI Comprehensive exam.

Curriculum
The Associate Degree Nursing program consists of 64 credit hours. Delivered in a hybrid format, this program combines traditional, face-to-face class time with online and out-of-class course work. In the ADN program hybrid courses replace face-to-face class time with 49% online or out-of-class work. Students must attend face-to-face classes at the location designated on the course schedule.

### Associate Degree Nursing Program

#### Curriculum Sequence

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101</td>
<td>COMM 102</td>
</tr>
<tr>
<td>HSCI 105</td>
<td>NURSA 125</td>
</tr>
<tr>
<td>NURSA 101</td>
<td>NURSA 110</td>
</tr>
<tr>
<td>NURSA 101</td>
<td>NURSA 110L</td>
</tr>
<tr>
<td>NURSA 204</td>
<td>NURSA 115</td>
</tr>
<tr>
<td>PSYC 212</td>
<td>NURSA 115L</td>
</tr>
</tbody>
</table>

Please Note: Each semester, all courses must be completed with a grade of “C” or better prior to entering subsequent semester courses. Students must maintain a cumulative GPA of 2.5 or better in all courses to progress to the next semester.
<table>
<thead>
<tr>
<th>SEMESTER 3</th>
<th>SEMESTER 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 228</td>
<td>Introduction to Interprofessional Practice</td>
</tr>
<tr>
<td>NURSA 215</td>
<td>Pathophysiology and Pharmacology II</td>
</tr>
<tr>
<td>NURSA 225</td>
<td>Medical Surgical Nursing II</td>
</tr>
<tr>
<td>NURSA 225L</td>
<td>Medical Surgical Nursing II Clinical/Lab/Simulation</td>
</tr>
<tr>
<td>NURSA 230</td>
<td>Obstetric Nursing</td>
</tr>
<tr>
<td>NURSA 230L</td>
<td>Obstetric Nursing Clinical/Lab/Simulation</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Please Note:** Successful completion of all courses listed for a semester is required for the student to enroll in courses for the following semester.

**BACHELOR OF SCIENCE IN NURSING**

**Features of Distinction**

- Rank #3 out of 26 registered nursing programs in West Virginia by [RegisteredNursing.org](http://RegisteredNursing.org)
- More than 50 years’ experience educating over 3,000 nurses
- Innovative and accessible courses intentionally designed to meet diverse health care needs of the community
- Solid educational foundation for career mobility, graduate education and further academic study
- Faculty have professional nursing expertise in diverse health care settings
- Small clinical/lab/simulation sections with an 8-10:1 student/faculty ratio
- Interdisciplinary education
- Interprofessional courses with clinical/laboratory experiences
- Extensive set of electronic library, books, journals and databases accessible online and on mobile devices
- High fidelity simulation lab on campus
- Assessment and skills laboratories on campus
- Premier health care facilities utilized for clinical rotations less than ten minutes from campus
- Clinical experiences in a wide variety of health care settings, including a Level I Trauma Center, premier cardiac center and the only free-standing Women’s and Children’s hospital in West Virginia
- Extensive nursing practicums in the senior year of the program under the supervision of faculty and clinical nurse preceptors
- NCLEX-RN passage rate above state and national average
- Nationally accredited by the Accreditation Commission for Education in Nursing (ACEN)
End of Program Learning Outcomes (EPSLO)

The National League for Nursing (NLN) Educational Competencies Model revolves around four outcome areas: Human Flourishing, Nursing Judgment, Professional Identify and Spirit of Inquiry. The Nursing Department has identified End of Program Student Learning Outcomes for each outcome area.

**Graduates of the BSN program will demonstrate achievement of the following:**

**Outcome 1: Human Flourishing.** Create a plan of care through collaboration with the patient or designee that respects the diversity of the patient’s individual values and needs.

**Outcome 2: Nursing Judgement.** Analyze judgments made in practice, substantiating them with evidence that uses the nursing process to integrate nursing science with the provision of safe, effective care.

**Outcome 3: Professional Identity.** Implement their role as a nurse in ways that reflect integrity, responsibility, and ethical practice.

**Outcome 4: Spirit of Inquiry.** Apply current best practices to plan, implement, and evaluate safe and effective patient care.

---

**Student Achievement Data (2018)**

- Pass Rate 100%
- Employment Rate 100%
- Completion Rate 98%

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**Admission Requirements**

Students must gain general admission to the University of Charleston. Application to the BSN program occurs during the Spring semester of the freshman year. Applicants must score 60% or higher on the TEAS entrance exam and have a cumulative Grade Point Average (GPA) of 2.5 or higher. Graduation from the BSN program requires completion of all course work with a grade of “C” or better.

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**Graduation Requirements**

Graduation from the BSN program requires completion of all course work with a grade of “C” or better. Students must also maintain a cumulative GPA of 2.5 and successfully complete the ATI Comprehensive exam.

---

**Curriculum**

The Bachelor of Science in Nursing program consists of 121 credits hours. Some courses may be offered online or in a hybrid format.
### Bachelor's Degree Nursing Program

#### Curriculum Sequence

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN</strong></td>
<td></td>
</tr>
<tr>
<td>BIOL 171 Anatomy and Physiology I</td>
<td>BIOL 172 Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIOL 171L Anatomy and Physiology I Lab</td>
<td>BIOL 172L Anatomy and Physiology II Lab</td>
</tr>
<tr>
<td>COMM 101* Freshman Writing I</td>
<td>COMM 102* Freshman Writing II</td>
</tr>
<tr>
<td>HSCI 105 Essential Concepts for HSCI Professionals</td>
<td>HSCI 110 History of Health Science</td>
</tr>
<tr>
<td>HUMN 1XX Humanities</td>
<td>MATH 121 College Algebra</td>
</tr>
<tr>
<td>PSYC 212 Life Span Development</td>
<td>SPCH 103** Oral Communication Skills</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>SSCI 1XX Social Science</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>TOTAL</strong></td>
</tr>
<tr>
<td>12 + 3 = 15</td>
<td>15 + 6 = 21</td>
</tr>
</tbody>
</table>

*Embedded in HUMN 1XX and SSCI 1XX

**Embedded in UNIV 102

Please Note: Admission to the BSN program occurs by application during the spring semester of the freshman year. Applicants must score 60% or higher on the TEAS entrance exam and have a cumulative Grade Point Average (GPA) of 2.5 or higher. All courses listed for the freshman level must be completed with a grade of “C” or better prior to entering the sophomore level nursing courses. Students must also maintain a cumulative GPA of 2.5 or better in all courses.

<table>
<thead>
<tr>
<th>SOPHOMORE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
</tr>
<tr>
<td>BIOL 127 Microbiology for Allied Health Majors</td>
<td>ENG 2XX Literature</td>
</tr>
<tr>
<td>BIOL 127L Microbiology for Allied Health Majors Lab</td>
<td>HSCI 235 Interprofessional Evidence-Based Practicum</td>
</tr>
<tr>
<td>HSCI 228 Foundational Concepts for Interprofessional Practice</td>
<td>NURSB 210 Medical Surgical Nursing I</td>
</tr>
<tr>
<td>NURSB 201 Fundamentals of Nursing</td>
<td>NURSB 210L Medical Surgical Nursing I Clinical/Lab/Simulation</td>
</tr>
<tr>
<td>NURSB 201L Fundamentals of Nursing Clinical/Lab/Simulation</td>
<td>NURSB 215 Mental Health Nursing</td>
</tr>
<tr>
<td>NURSB 204 Health Assessment</td>
<td>NURSB 215L Mental Health Nursing Clinical/Lab/Simulation</td>
</tr>
<tr>
<td>NURSB 204L Health Assessment Lab</td>
<td>NURSB 225 Pathophysiology and Pharmacology I</td>
</tr>
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<td><strong>TOTAL</strong></td>
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</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Please Note: Progression from the sophomore level to the junior level requires completion of all course work listed for the sophomore level with a grade of “C” or better. Students must maintain a cumulative GPA of 2.5 or better.

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<table>
<thead>
<tr>
<th>JUNIOR</th>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 310</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NURSB 315</td>
<td>Pathophysiology and Pharmacology II</td>
<td>2</td>
</tr>
<tr>
<td>NURSB 325</td>
<td>Medical Surgical Nursing II</td>
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</tr>
<tr>
<td>NURSB 325L</td>
<td>Medical Surgical Nursing II Clinical/Lab/Simulation</td>
<td>2</td>
</tr>
<tr>
<td>NURSB 330</td>
<td>Obstetrics Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NURSB 330L</td>
<td>Obstetrics Nursing Clinical/Lab/Simulation</td>
<td>1</td>
</tr>
<tr>
<td><strong>14</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**Please Note:** Progression from the junior level to the senior level requires completion of all course work listed for the junior level with a grade of “C” or better. Students must maintain a cumulative GPA of 2.5 or better.

<table>
<thead>
<tr>
<th>SENIOR</th>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>NURSB 404</td>
<td>Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>NURSB 450</td>
<td>Nursing Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>NURSB 450L</td>
<td>Nursing Practicum I Clinical</td>
<td>4</td>
</tr>
<tr>
<td>NURSB 455</td>
<td>Prevention and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>NURSB 455L</td>
<td>Prevention and Population Health Practicum</td>
<td>1</td>
</tr>
<tr>
<td>UNIV 459 or 460</td>
<td>University Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>16</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Please Note:** Students are required to complete all course work listed for the senior level with a grade of “C” or better and maintain a cumulative GPA of 2.5 or better. All students must complete the University Capstone course and successfully pass the ATI Comprehensive Exam.
Features of Distinction

- Rank #3 out of 26 registered nursing programs in West Virginia by RegisteredNursing.org
- Ranked in the 2019 Best Online Colleges for nursing program by SR Educational Group
- More than 50 years’ experience educating over 3,000 nurses
- Innovative and accessible courses intentionally designed to meet diverse health care needs of the community
- Associate Degree Nursing students may enroll in Health Sciences courses prior to graduation
- 50 credit hours awarded for current unencumbered or active temporary RN license
- Delivered 100% online
- No clinical requirement
- May be completed in one calendar year (three academic semesters)
- Solid educational foundation for career mobility, graduate education and further academic study
- Faculty have professional nursing expertise in diverse health care settings
- Extensive set of electronic library, books, journals and databases accessible online and on mobile devices

End of Program Learning Outcomes (EPSLO)

The National League for Nursing (NLN) Educational Competencies Model revolves around four outcome areas: Human Flourishing, Nursing Judgment, Professional Identity and Spirit of Inquiry. The Nursing Department has identified End of Program Student Learning Outcomes for each outcome area.

Graduates of the RN-BSN program will demonstrate achievement of the following:

**Outcome 1: Human Flourishing.** Create a plan of care through collaboration with the patient or designee that respects the diversity of the patient’s individual values and needs.

**Outcome 2: Nursing Judgement.** Analyze judgments made in practice, substantiating them with evidence that uses the nursing process to integrate nursing science with the provision of safe, effective care.

**Outcome 3: Professional Identity.** Implement their role as a nurse in ways that reflect integrity, responsibility, and ethical practice.

**Outcome 4: Spirit of Inquiry.** Apply current best practices to plan, implement, and evaluate safe and effective patient care.
Admission Requirements

Students must gain general admission to the University of Charleston. Applicants must be a registered professional nurse (RN) with a current, unencumbered or active temporary license, have a cumulative Grade Point Average (GPA) of 2.0 or better, and submit an application to the RN-BSN program along with a copy of all college transcripts. All transcripts will be reviewed by the registrar to determine transfer equivalency.

Graduation Requirements

Graduation from the RN-BSN program requires completion of all course work with a grade of “C” or better.

Curriculum

The RN-BSN program consists of 120 credits hours.

RN-BSN Bachelor's Degree Nursing Program

120 Credit Hours

Credit Awarded for Current Unencumbered or Active Temporary RN License 50 Credit Hours

Foundational Courses 40 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 212</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 212L</td>
<td>Introduction to Human Anatomy and Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>COMM 101</td>
<td>Freshman Writing I</td>
<td></td>
</tr>
<tr>
<td>COMM 102</td>
<td>Freshman Writing II</td>
<td></td>
</tr>
<tr>
<td>ENG 2XX</td>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td>PSYC 212</td>
<td>Life Span Development</td>
<td></td>
</tr>
<tr>
<td>SPCH 103</td>
<td>Oral Communications</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Health Sciences Courses 15 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 105</td>
<td>Essential Concepts for Health Science Professionals</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 110</td>
<td>History of Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 228</td>
<td>Foundational Concepts of Interprofessional Practice</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 235</td>
<td>Interprofessional Evidence-Based Practice</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 302</td>
<td>Health Ethics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 310</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 312</td>
<td>Statistics for Evidence Based Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Nursing Courses 15 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURSR 302</td>
<td>Advanced Health Assessment for the RN</td>
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</tr>
<tr>
<td>NURSR 402</td>
<td>Prevention and Population Health</td>
<td>4</td>
</tr>
<tr>
<td>NURSR 404</td>
<td>Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>NURSR 410</td>
<td>Leadership and Health Policy for the RN</td>
<td>4</td>
</tr>
</tbody>
</table>
Mission

The mission of the Exercise Science Program is to prepare graduates entering health-related disciplines with the knowledge and skills needed to continue open-minded pursuits including the development of human movement and the promotion of a healthy lifestyle in practice and throughout the community.

Program Description

The Exercise Science Program at the University of Charleston offers students interested in pursuing a career in fitness/wellness, strength & conditioning and rehabilitation sciences an interdisciplinary approach to healthcare. Academic coursework in biology, exercise physiology, motor development, movement analysis, fitness, kinesiology, psychology, and strength & conditioning provide students a strong educational foundation followed by real-world hands-on experience.

Program Strengths

• Focuses on the understanding and promotion of human movement and a healthy lifestyle.
• Strong health science emphasis provides students with a robust Exercise science foundation.
• Students will have the opportunity to work in collaboration with Strength & Conditioning Coaches and Human Movement Specialists from the University of Charleston and the surrounding area during practicum experiences and immersed internships.
• Exciting and practical immersed internship experiences.
• Eligible for certifications through the American College of Sports Medicine (ACSM), the National Strength and Conditioning Association (NSCA) and the National Academy of Sports Medicine (NASM).
• Enrolled students have opportunities to work with clientele of all ages, athletic ability, and motivation.

Exercise Science Profession

Exercise Science graduates will be prepared for a wide range of career opportunities. Sample jobs titles include:

• Strength & Conditioning Coach/Specialist
• Fitness Personal Trainer
• Corrective Exercise Specialist
• Health & Fitness Educator
• Wellness Coordinator
Graduate Programs

Exercise Science graduates will have the foundation to pursue graduate programs in the following areas (additional prerequisites may be required)

- Athletic Training
- Exercise Physiology
- Occupational Therapy
- Health and Fitness
- Physical Therapy

Program Outcomes

The graduate will:

1. Apply and examine a body of knowledge in exercise science and related fields.
2. Evaluate, develop and implement programs addressing all paradigms of fitness and wellness.
3. Analyze basic human movement and design movement-oriented exercise prescriptions.
4. Select and apply appropriate strength and conditioning principles related to human movement and the promotion of a healthy lifestyle.
5. Develop and implement physical fitness/health assessment programs.

Admission and Successful Progression

All undergraduate students are eligible to declare Exercise Science as their major. To progress in the Exercise Science Program and graduate, students must pass their required courses, including a 3 or 12-credit immersed internship, with a C or better and meet the institutional academic requirement of maintaining a minimum cumulative 2.0 GPA. Students must meet all Liberal Learning Outcomes required for graduation by the University of Charleston.

What You Will Study

The following is a guide based on a 4-year completion period. **Students may accelerate their experience and complete the program in 3 ½ years if desired.** Every student is assigned an academic advisor who will assist with degree completion planning and career exploration.
### Sample Curriculum Sequence

<table>
<thead>
<tr>
<th></th>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXER 201 Training Concepts</td>
<td>3</td>
<td>EXER 2XX Basic Exercise Technique</td>
</tr>
<tr>
<td>UNIV 101 University Orientation</td>
<td>1</td>
<td>UNIV 102 University Exp (LLO 5.1)</td>
</tr>
<tr>
<td>COMM 101 Writing I (LLO 2.1F1)*</td>
<td>3</td>
<td>COMM 102 Writing II (LLO 2.1F2)*</td>
</tr>
<tr>
<td>HUMN 1XX (LLO 3.1, 4.1)</td>
<td>3</td>
<td>SPCH 103 (LLO 2.2F)**</td>
</tr>
<tr>
<td>MATH 120 (LLO 4.2, 6.1M)</td>
<td>3</td>
<td>SSCI 1XX (LLO 1.1)*</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
<td>3</td>
<td>PSYC 212 Life Span Development (LLO 2.3)</td>
</tr>
<tr>
<td>HSCI 110 History of Health Science (LLO 1.2, 1.3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
<td><strong>Total</strong></td>
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</table>

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>EXER 113 Structural Kinesiology</td>
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<tr>
<td>HSCI 204 Nutrition</td>
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<td>MATH 121 (LLO 4.2, 6.1M)</td>
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<tr>
<td>SPBU 310 Rec/Fitness Management</td>
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<tr>
<td>BIOL 171L Anatomy &amp; Physiology I</td>
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<tbody>
<tr>
<td>EXER 325 Exercise Prescription</td>
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</tr>
<tr>
<td>EXER 340 Exercise &amp; Psychological Mindfulness</td>
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<tr>
<td>HSCI 370 Physiology of Exercise</td>
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<tr>
<td>HIST 211/ART XXX (LLO 3.2L)</td>
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<tr>
<td>HSCI 302 Health Ethics &amp; Policy (LLO 5.2)</td>
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<tbody>
<tr>
<td>EXER 333 Pharm &amp; Psych (LLO 5.2)</td>
<td>3</td>
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<tr>
<td>EXER 355 Motion Analysis (LLO 3.3)</td>
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<tr>
<td>EXER 475 Senior Capstone (LLOs 1.4, 2.1A, 4.3)</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 459 or 460 Senior capstone (LLOs 4.3, 5.3)</td>
<td>3</td>
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<tr>
<td>HSCI 402 Research I (LLOs 2.1A or 2.2A, 6.2, 6.3)</td>
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<td><strong>Total</strong></td>
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</table>

**Total Credits in Program** 129

*Writing courses are embedded in HUMN 1XX and SSCI 1XX
**SPCH 103 is embedded in UNIV 102
***If doing EXER 497 student will take additional classes to reach 121 credit hours
Immersive Internship – Graduates are Ready for the Real World

Enrolled students will have the opportunity to develop hands-on client interaction through didactic classroom and practical-based community engagement. Exercise Science students will obtain knowledge in anaerobic and aerobic training as they matriculate through the program and will gain real world experiences prior to graduation through interactive courses and internships. Graduates will develop an understanding and ability to practically apply concepts from fitness management, biomechanics, and nutrition to promote healthy living across the lifespan.

Professional Certifications

- National Strength & Conditioning Association Certified Strength & Conditioning Specialist (CSCS)
- National Strength & Conditioning Association Certified Personal Trainer (NSCA-CPT)
- American College of Sports Medicine Certified Personal Trainer (CPT)
- National Academy of Sports Medicine Corrective Exercise Specialist (CES)
- National Academy of Sports Medicine Performance Enhancement Specialist (PES)
- Athletics and Fitness Association of America Group Fitness Instructor (GFI)
- Functional Movement Specialist (FMS)
- Selective Functional Movement Assessment (SFMA)

STRENGTH & CONDITIONING MINOR

The Strength & Conditioning minor at the University of Charleston is designed to expand students’ knowledge of performance enhancement through interdisciplinary coursework in Exercise Science.

Students completing the Strength & Conditioning minor are prepared to take recognized credentialing certification exams offered by the National Strength & Conditioning Association (NSCA), American College of Sports Medicine (ACSM) and the National Academy of Sports Medicine (NASM).

The Strength & Conditioning minor consists of 18 credit hours. Course requirements:

<table>
<thead>
<tr>
<th>Strength &amp; Conditioning Minor</th>
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</thead>
<tbody>
<tr>
<td>The following courses are required:</td>
</tr>
<tr>
<td>EXER 201 Training Concepts</td>
</tr>
<tr>
<td>EXER 2XX Basic Exercise Technique</td>
</tr>
<tr>
<td>EXER 275 Program Design &amp; Implementation</td>
</tr>
<tr>
<td>HSCI 204 Nutrition</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Choose 2 elective courses from the list below based on individual student goals for implementing this minor into their future career:</td>
</tr>
<tr>
<td>EXER 252 Foundations of Injury Management</td>
</tr>
<tr>
<td>EXER 325 Exercise Prescription</td>
</tr>
<tr>
<td>EXER 330 Special Populations</td>
</tr>
<tr>
<td>EXER 340 Exercise &amp; Psychological Mindfulness</td>
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<tr>
<td>Total</td>
</tr>
</tbody>
</table>
HEALTH PROMOTION MAJOR

Professor Nicolette Bell, Program Director

Mission
The mission of the Health Promotion program is to prepare graduates as health educators who promote healthy lifestyles and disease prevention, model life-long learning through continuing education, and are engaged in their profession and community.

Program Strengths
- Focuses on the understanding and promotion of health in populations.
- Strong health science emphasis that provides students with a robust health care foundation.
- Complementary array of interdisciplinary coursework in Natural Sciences, Psychology, and Integrated Communication.
- Collaborate with community organizations and businesses on healthy living initiatives.
- Exciting and practical immersed internship experiences.
- According to the U.S. Bureau of Labor Statistics, the occupation of health educators and community health workers is expected to grow by 21 percent by 2022.
- Typical employment opportunities include corporations, health insurance companies, state and federal health departments, hospitals and rehabilitation clinics, non-profit organizations and fitness / recreation centers.

Program Description
Health Promotion is defined as, “the art and science of helping people discover the synergies between their core passions and optimal health, enhancing their motivation to strive for optimal health, and supporting them in changing their lifestyle to move toward a state of optimal health. Optimal health is a dynamic balance of physical, emotional, social, spiritual, and intellectual health” (O'Donnell, 2009).

Health Promotion at the University of Charleston is a baccalaureate degree program, at the Charleston location, that prepares graduates as health education professionals. Students can be either traditional or adult students and can choose to complete the program full-time or on a part-time basis. Students are both majors and/or pre-professionals who have the option of competing the program in either 3 or 4 years (full-time status) depending on whether they are needing pre-requisites for professional placement in the workforce or graduate school. Students will engage in a multidisciplinary curriculum with a strong health science emphasis that provides a robust health care foundation, while also offering a complementary array of coursework in Natural Sciences, Psychology, Movement Science, and Integrated Communication. The opportunity to gain real world skills in the professional environment of their discipline equips graduates with the work experience that employers and graduate schools desire. For example, students have the opportunity to work with local schools and organizations in providing nutrition and health seminars and presentations. Students will refine their ability to perform comprehensive program development in areas such as assessing health needs, planning, implementation, evaluation, and management.
Graduates can be employed in settings such as state and local health departments, health insurance agencies, corporate wellness programs, non-profit organizations, and hospitals and rehabilitation clinics. Graduates will also have the education required for further study in graduate programs such as Public Health, Exercise Science, and Health Care Administration. If so desired, the strong and motivated student can also incorporate pre-requisite coursework, above and beyond what is required of them to graduate with a Health Promotion major, to pursue professional health care graduate programs.

Program Outcomes

The graduate will:

1. Demonstrate cultural sensitivity and respect of individual differences within the healthcare profession.
2. Plan and implement health education and promotion.
3. Conduct and evaluate research related to health and health related fields.
4. Model professional behaviors and attitudes that reflect the expectations of the healthcare profession and the community.
5. Communicate and advocate for changing lifestyles progressing towards optimal health.

Admission and Successful Progression

All undergraduate students are eligible to declare Health Promotion as their major. To progress in the program and graduate, students must pass their required courses, including a 3 or 12 credit immersed internship, with a C or better and meet the institutional academic requirement of maintaining a minimum cumulative 2.0 GPA to remain in good academic standing.

What You Will Study

The Health Promotion major consists of 123 credit hours that include a combination of major courses (60 credits), core courses (30 credits), elective credit course (5 credits), and liberal learning outcome courses (28 credits).

The following is a guide based on a 4-year completion period. Students may accelerate their experience and complete the program in 3 ½ years if desired. Every student is assigned an academic advisor who will assist with degree completion planning and career exploration.

Sample Curriculum Sequence

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
</tr>
<tr>
<td>FALL SEMESTER</td>
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<tr>
<td>---------------</td>
</tr>
<tr>
<td>UNIV 101 University Orientation</td>
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<tr>
<td>COMM 101 Writing I (LLO 2.1F1)*</td>
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<tr>
<td>HUMN 1XX (LLO 3.1, 4.1)*</td>
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<tr>
<td>HSCI 110 History of Health Sciences (LLO 1.2, 1.3)</td>
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<td>HPRO 100 Introduction to Health Promotion</td>
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<td>MATH 120/121 (LLO 4.2, 6.1M)</td>
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<td>PSYC 101 Psychology (LLO 4.2)</td>
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### SOPHOMORE YEAR

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<thead>
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<tr>
<td>HSCI 204 Nutrition</td>
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<tr>
<td>BIOL 171 Anatomy &amp; Physiology I</td>
<td>3</td>
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<tr>
<td>BIOL 171L Anatomy &amp; Physiology Lab I</td>
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<tr>
<td>ICOM 225 Principles of PR (LLO 4.2)</td>
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<tr>
<td>HSCI 235 Interprofessional Evidence Based Practices</td>
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<tr>
<td>EXER 252 Foundations of Injury Management</td>
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<td>EXER 330 Special Populations (LLO 2.2M, 4.2)</td>
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<tr>
<td>BIOL 172 Anatomy &amp; Physiology II (LLO 6.1S)</td>
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<tr>
<td>ART XXX/HIST 211 (LLO 3.2)</td>
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### JUNIOR YEAR

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<tr>
<td>EXER 340 Exercise &amp; Psychological Mindfulness</td>
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<td>ENGL XXX (LLO 3.2L)</td>
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<tr>
<td>NSCI 220/PSYC 315/BUSI 317 Statistics (LLO 6.2)</td>
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<tr>
<td>TOTAL CREDITS</td>
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### SENIOR YEAR

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<th>Course</th>
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<td>HPRO 475 Health Promotion Capstone (LLO 1.4, 2.1A, 3.3, 4.3)</td>
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<tr>
<td>UNIV 459 or 460 Senior Capstone (LLO 4.3, 5.3)</td>
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</tr>
<tr>
<td>HSCI 402 Research (LLO 2.1A, 6.2, 6.3)</td>
<td>3</td>
</tr>
<tr>
<td>Minor Elective</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
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</table>

*Portfolio courses embedded in either HUMN XXX, SSCI XXX, or UNIV 102.

**Immersed Internship -- Ready for the Real World!**

Health Promotion majors complete an immersed 3 or 12-credit internship in the final semester before graduation. Students can apply and/or arrange to complete this experience in any location pending university approval. The opportunity to gain real world skills in the professional environment of their discipline equips graduates with the work experience that employers and graduate schools desire. Students will refine their ability to perform comprehensive program development in areas such as assessing health needs, planning, implementation, evaluation, and management.

**Graduate Programs**

Health Promotion graduates will also have the education required to further their education in graduate programs such as Public Health, Exercise Science, and Health Care Administration.

**Professional Certifications**

Additionally, graduates can increase their marketability by seeking outside professional certifications such as Certified Health Education Specialist (CHES), American College of Sports Medicine certifications (ACSM), American College of Exercise Certifications (ACE), Performance Enhancement Specialist (PES), and First Aid/CPR/AED.
ATHLETIC TRAINING PROGRAM

Prof. Jody Mashinter, Program Director

The undergraduate Athletic Training Program at the University of Charleston is accredited by the Commission on the Accreditation of Athletic Training Education (CAATE). The program is currently applying to the CAATE for a change in level of degree.

The University is no longer accepting applications for this Program.

Mission

The mission of the Athletic Training Program is to educate each student on the integration of knowledge, skills, foundational behaviors, and community involvement in the Athletic Training profession.

Program Strengths

- Dynamic and hands-on academic experience integrating knowledge and skills
- Clinical education experiences in a variety of health care settings
- Graduates are eligible to sit for Board of Certification (BOC) examination to become a Certified Athletic Trainer
- Opportunities to earn additional credentials: Corrective Exercise Specialist (CES) and Performance Enhancement Specialist (PES) through the National Academy of Sports Medicine
- 94% pass rate on the BOC examination for the most recent three-year aggregate
- 100% acceptance into the graduate field of choice and 100% job placement upon graduation for the most recent three-year aggregate

Athletic Training Profession

Athletic Trainers are health care professionals who collaborate with physicians to optimize activity and participation of patients and clients across age and care continuums. Athletic training encompasses the prevention, emergency care, clinical diagnosis, therapeutic invention and rehabilitation of injuries and medical conditions. Employment settings include universities, high schools, military, rehabilitation centers, performance enhancement facilities, police departments, physician offices as physician extenders, hospitals, performing arts, employer-based rehabilitation centers, and professional sports.

Program Description

The Athletic Training (AT) Program is a very dynamic and hands-on academic experience incorporating learning over time through classroom work that transcends to clinical experiences. The wide variety of clinical education experiences provides students with a broad foundation of knowledge, which can lead to increased employment and graduate school opportunities. Students can tailor their undergraduate preparation for employment settings and to seek entrance into graduate school programs such as post-professional athletic training, sports psychology, exercise physiology, cardiac rehabilitation, adult fitness, physical therapy, physician assistant programs, occupational therapy, and medicine.

Students have hands-on clinical experiences with athletic trainers in numerous locations - on-campus varsity athletics, other universities, high school, rehabilitation centers, hospitals, physician offices, and performance enhancement centers. Students
also have opportunities for clinical experiences with other health care professionals, including physicians, surgeons, physician assistants, nurse practitioners, occupational therapists, physical therapists, and chiropractors.

Faculty in our department also work clinically with UC athletes. AT students learn the information in the classroom from the same faculty, who can then guide the student during clinical experiences in the application and integration of knowledge and skill in a real-world setting. Students are also engaged in the program from the first year at UC – taking Athletic Training courses and completing clinical observation hours. Clinical education experiences allow the student to be engaged in the application of knowledge and skills in a variety of settings during their time at UC. In the last semester of the program a student is eligible to take the Boards of Certification (BOC) examination to become a Certified Athletic Trainer.

Program Outcomes

At the conclusion of this program the graduate will:

**Outcome 1:** Apply and critically examine a body of knowledge in athletic training and related fields.

1.1 Identify and explain theories and concepts related to athletic training practice and other related fields.

1.2 Demonstrate cumulative knowledge of theories and concepts related to athletic training and related fields.

1.3 Synthesize theories and concepts to demonstrate understanding of all domains of athletic training and related fields.

**Outcome 2:** Demonstrate clinical proficiency during patient/client interactions.

2.1 Apply appropriate clinical skills during patient/client interactions while maintaining a professional attitude.

2.2 Analyze information to make appropriate decisions.

2.3 Synthesize information to develop and implement a comprehensive management plan.

**Outcome 3:** Demonstrate inter-professional collaborative practice in healthcare

3.1 Identify roles and responsibilities of athletic trainers in a variety of experiences.

3.2 Interact with health care professionals other than athletic trainers while demonstrating appropriate professional behaviors.

3.3 Collaborate with health care professionals from multiple disciplines to provide appropriate patient care and develop appropriate inter-professional attitudes.

**Outcome 4:** Demonstrate professional communication through verbal and written forms, including use of electronic formats.

4.1 Develop skills necessary for verbal and written communication in a professional environment.

4.2 Prepare and disseminate information through verbal, written and visual formats in a professional environment.

4.3 Synthesize and evaluate information and present to a professional audience in written, verbal and visual formats that is organized, accurate and coherent.

**Outcome 5:** Model foundational behaviors and attitudes that reflect the expectations of the profession and the community.
5.1 Identify foundational behaviors and attitudes of the athletic training profession and community.

5.2 Demonstrate an understanding of foundational behaviors and attitudes in the athletic training profession and community.

5.3 Evaluate methods of modeling foundational behaviors and attitudes over time.

Accreditation

The University of Charleston is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) located at 6850 Austin Center Blvd., Suite 100, Austin, TX 78731-3184.

Admission

The University is no longer accepting applications for this Program.

Admission to the Athletic Training Program is competitive. The cohort admitted each year is limited by the availability of clinical sites and preceptors. Applicants submit a completed application in its entirety to the AT Program by March 15th. Applications can be found on the AT Program’s website. To be considered for admission the applicant must meet the following criteria:

- Earn a minimum 2.75 overall GPA;
- Achieve a minimum of a “C” or higher in all Athletic Training and Health and Natural Science required courses;
  - ATEP 100: Orientation to Athletic Training (strongly recommended)
  - ATEP 113: Structural Kinesiology
  - ATEP 213: Prevention & Care of Athletic Injuries
  - ATEP 213L: Prevention & Care of Athletic Injuries Lab
  - BIOL 130: Introductory Biology for Majors
  - PSYC 101: Introduction to Psychology
- Complete a minimum of 40 observation hours with an Athletic Trainer obtained during the first two semesters;
- Completion of the Application Packet:
  - Candidate Information Form
  - Letter of Application
  - Resume
  - Undergraduate transcripts
  - Clinical observation hours and service point forms
  - Self-evaluation
  - Two reference evaluations
  - Requirements for Progression and Graduation
  - Proof of current CPR/AED certification (either BLS for the Healthcare Provider or CPR/AED for the Professional Rescuer)
  - Proof of current First Aid certification
  - Signed technical standards form
  - Immunization review and clearance for clinical practice
  - Photograph release form

Applicants submitting completed applications by March 15th and meeting the above criteria will be scheduled for an interview with the AT Program Interview Committee.
Applicants are evaluated on the completed application, letter of application, GPA, course grades, observation hours and clinical evaluations, reference evaluations, interview, and community and professional involvement.

The applicant will be notified of the admission status in writing using the home address by May 30th. Applicants are then responsible for following the procedures for completing a criminal background check. Students failing to submit such evidence will not be allowed to enroll in the practicum courses or participate in the clinical education experiences. In the event the applicant is not admitted to the AT Program, the applicant may re-apply the following year.

What You Will Study

The Athletic Training Program consists of 125 credits, distributed among 69 credits in Athletic Training, 18 credits Biology, Health & Natural Science, and 38 credits in Liberal Learning Outcomes courses. Students must also complete a minimum of 990 clinical education hours that are supervised by a preceptor upon admission into the program and 75 service and continuing education points. A sample curriculum sequence for the Bachelor of Science degree in Athletic Training is shown in the tables below.

Bachelor of Science Degree in Athletic Training - Sample Curriculum Sequence

<table>
<thead>
<tr>
<th>Freshman Year</th>
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<tr>
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<td>Fall Semester</td>
<td>Spring Semester</td>
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<tr>
<td>Course</td>
<td>Credit</td>
<td>Course</td>
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<tr>
<td>ATEP 100 Orientation to AT</td>
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<td>ATEP 213 Prevention &amp; Care</td>
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<tr>
<td>BIOL 130 Intro to Biology for Majors</td>
<td>4</td>
<td>ATEP 213L Prevention &amp; Care Lab</td>
</tr>
<tr>
<td>UNIV 101 Orientation to University</td>
<td>1</td>
<td>ATEP 113 Structural Kinesiology</td>
</tr>
<tr>
<td>COMM 101 Freshmen Writing I*</td>
<td>3</td>
<td>UNIV 102 University Experience</td>
</tr>
<tr>
<td>SSCI 1XX Social Science FYE course</td>
<td>3</td>
<td>HUMN 1XX Humanities FYE course</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
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<td>COMM 102 Freshman Writing II*</td>
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* COMM 101 and COMM 102 are embedded in HUMN 1XX or SSCI 1XX courses.
** SPCH 103 is embedded UNIV 102
***may be substituted with other courses bearing similar LLO approvals

<table>
<thead>
<tr>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td></td>
<td>Fall Semester</td>
<td>Spring Semester</td>
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<tr>
<td>Course</td>
<td>Credit</td>
<td>Course</td>
</tr>
<tr>
<td>ATEP 201 Practicum I</td>
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<td>ATEP 202 Practicum II</td>
</tr>
<tr>
<td>ATEP 225 Lower Extremity Assessment</td>
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<td>ATEP 224 Upper Extremity Assessment</td>
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<tr>
<td>BIOL 301 Anatomy &amp; Physiology I</td>
<td>3</td>
<td>ATEP 226 Assessment of Head, Spine and Thorax</td>
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<td>BIOL 301L Anatomy &amp; Physiology Lab</td>
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<td>BIOL 302 Anatomy &amp; Physiology II</td>
</tr>
<tr>
<td>MATH 120 Intermediate Algebra</td>
<td>3</td>
<td>BIOL 302L Anatomy &amp; Physiology Lab</td>
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## Junior Year

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<tr>
<td>ATEP 301 Practicum III</td>
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<td>ATEP 302 Practicum IV</td>
<td>4</td>
</tr>
<tr>
<td>ATEP 313 Therapeutic Modalities</td>
<td>4</td>
<td>ATEP 323 Therapeutic Rehabilitation</td>
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<tr>
<td>ATEP 370 Physiology of Exercise</td>
<td>3</td>
<td>ATEP 452 Organization &amp; Administration</td>
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</tr>
<tr>
<td>ATEP 333 Pharmacology &amp; Psychology</td>
<td>3</td>
<td>ENGL 312 OR 326*</td>
<td>3</td>
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<tr>
<td>HIST 211, ART 100, ART 211*</td>
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<td>HSCI 204 Nutrition</td>
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</table>

*may be substituted with other courses bearing similar LLO approvals

## Senior Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ATEP 401 Practicum V</td>
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<td>ATEP 402 Practicum VI</td>
<td>4</td>
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<tr>
<td>ATEP 413 General Medical Concerns</td>
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<td>ATEP 475 Senior Thesis</td>
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<td>EXER 355 Motion Analysis</td>
<td>3</td>
<td>UNIV 459 or 460 University Capstone</td>
<td>3</td>
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<tr>
<td>HSCI 402 Research I</td>
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<td>NSCI 333 or HIST 212</td>
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<td><strong>Total:</strong></td>
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<td></td>
<td><strong>13</strong></td>
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</tbody>
</table>

### Additional Information

#### Progression Requirements

Students are monitored for satisfactory progression at regular intervals for progression to graduation. To progress a student must:

- Maintain a minimum cumulative GPA of 2.75 on all work completed at the University of Charleston;
- Earn a minimum grade of “C” in all Athletic Training and Health & Natural Science required courses;
- Complete a minimum of 330 clinical hours per year;
- Show progress on earning service and continuing education points as outlined in the *AT Student Handbook*;
- Pass the written, isolated skills, and oral/practical components of the Comprehensive Program Assessment each semester;
- Maintain current CPR/AED certification;
- Maintain documentation of yearly PPD (TB skin test) and seasonal flu vaccine.
- Follow all policies, procedures, and guidelines as stated in the current copy of the *AT Student Handbook*.

#### Graduation Requirements

To be eligible for graduation a student must:

Maintain a minimum cumulative GPA of 2.75 on all work completed at the University of Charleston;
Complete a minimum of 125 academic credits;
Earn a minimum grade of “C” in all Athletic Training and Health & Natural Science required courses;
Complete 40 observation hours with an Athletic Trainer prior to acceptance into the AT Program;
Complete a minimum of 990 clinical hours, after admission to the program, that are directly supervised by a preceptor;
Complete 75 service and continuing education points as outlined in the AT Student Handbook;
Pass the written, isolated skills, and oral/practical components of the senior comprehensive examination; and
Complete the program within five years (60 months) upon beginning the practicum courses.

Comprehensive Examination

Students must successfully pass a written, skill, and comprehensive oral examination in the final semester of the year of expected graduation in order to graduate with a Bachelor of Science degree in Athletic Training. The minimum passing rate is 75% on each section of the examination. Each student may repeat a section of the comprehensive examination only two times.

Clinical Experiences

Students are required to have the following clinical education experiences: individual and team sports; sports requiring protective equipment; patients of different sexes; non-sport patient populations; and exposure to a variety of non-orthopedic conditions. Additional policies are contained within the AT Student Handbook.

Fees

Students are responsible for all required fees associated with this program. These required fees include, but are not limited to:

- Background Certification to be completed by August 1st of the sophomore year for those formally admitted to the program
- Laboratory Fee (Due at registration for ATEP 100, 213L, 201, 202, 301, 302, 401, and 475; specific amount is posted in the course schedule each semester)
- Liability Insurance (Automatically assigned to the student tuition when enrolled in any practicum course – ATEP 201, 202, 211, 301, 302, 311, 401, 402, and 411; specific amount is determined by the group policy negotiated yearly by administration)
- Medical Kit fees of ~$100.00 is due by August 1st of the sophomore year for those formally admitted to the program
- Photo ID ($5.00)
- Clinical Rotation Attire – designated polos and khaki pants and shorts (see AT Student Handbook for dress code requirements)

Liability Insurance

For the protection of the students accepted into the AT Program, all students enrolled in practicum and clinical education rotations courses, i.e., ATEP 201, 202, 211, 301, 302, 311, 401, 402, and 411, will be required to carry medical liability insurance from the beginning of the Sophomore year until graduation. This insurance will be provided through a group policy arranged by the University of Charleston and the School of Health Sciences. The student’s responsibility is to pay for the insurance premium at the
beginning of each semester during registration. This fee will be added to the regular cost of tuition. The liability insurance coverage applies to all classroom and clinical education experiences delineated by the AT Program. **This insurance does not cover student activities, e.g., summer camps, transporting an injured or ill athlete, driving an institutional vehicle, or other similar activities.**

**Transfer Students**

Students transferring into the Athletic Training Program or switching majors after the end of their freshman year must go through the application and interview process. These individuals must contact the AT Program Director, as these applications are reviewed on a case by case basis.

**Transportation**

Students are expected to assume responsibility for transportation to all assigned clinical rotations. Additional policies on clinical experiences are located in the *AT Student Handbook*.

**Clinical Rotation Attire**

Students are required to follow the clinical rotation attire guidelines during all clinical rotations as outlined in the *AT Student Handbook*, including a Health Science photo identification badge, a watch with a second hand, and designated shirt
OCCUPATIONAL THERAPY ASSISTANT PROGRAM

Professor Jacqueline Hurt, Program Director

Mission

In concert with the mission of University of the Charleston, the Occupational Therapy Assistant Program seeks to prepare its graduates to enter the global workforce as highly educated, productive individuals who have the knowledge and ability to embrace enlightened living through therapeutic use of self, and the technical skills and professional behaviors to be an involved member of the occupational therapy community. The OTA program seeks to maintain the highest ethical standards and to ensure dynamic curriculum development by thorough and ongoing assessment programs.

Occupational Therapy Assistant Program Goals

Our goal is to prepare entry-level Occupational Therapy Assistants:

- Who are competent, compassionate, and ethical.
- Who demonstrate a knowledge level and skill set indicative of securing national certification in Occupational Therapy Assisting.
- Who understand and communicate effectively across disciplines.
- Who value lifelong learning, are dedicated professionals and socially responsible citizens.

Faculty are committed to:

- Providing a strong foundation in the skills and knowledge needed for entry-level OTA practice competencies.
- Providing an environment to assist in understanding occupational therapy and practice.
- Providing instruction in basic skills and a supportive learning environment that will encourage and motivate the student to complete the prescribed course of study and remain lifelong learners.
- Providing an atmosphere that teaches respect for human life and demonstrates how that respect can be translated into client/patient care.
- Provide an atmosphere that provides students with an environment to learn new and marketable skills.
- Focusing on continuous improvement in the Occupational Therapy Assistant curriculum, allowing students access to the best evidence in the field of Occupational Therapy

Program Outcomes

The graduate will:

1. Demonstrate the ability to do research and communicate findings in writing.
2. Demonstrate the ability to communicate effectively orally
3. Translate didactic material into treatment ideas
4. Demonstrate the abilities to work in multidisciplinary teams
Admission Requirements

Admission to the OTA program is selective, and acceptance to the University of Charleston does not guarantee admission into the OTA program. Application is limited to those who have successfully completed the prerequisites listed below and meet specific GPA requirements of at least a 2.5.

- Anatomy and Physiology
- Beginning algebra
- English and communication
- Social Science
- Psychology

Additional Requirements for the OTA program Application Process

- Documentation of 16 volunteer hours with an OTA or OTR in at least 2 different age populations (Geriatrics/Pediatrics/Adults)
- 2 Letters of recommendation from someone other than family members
- GPA of 2.5 or higher
- Must complete all General Education with a C or better before starting the OTA program.
- Complete all OTA courses with “C” or higher
- Students must demonstrate basic computer proficiency or will have to participate in a UC computer seminar
- Transfer credits are subject to change with the registrar’s office evaluation of your official transcripts.
- Total Program Credit Hours 64

Felony Conviction Information

A student may be admitted to the OTA program at University of Charleston-Beckley even if a felony has been committed. However, there may be instances where a student will not be permitted to test for licensure or admitted to a clinical setting depending on the guidelines of the outside Accrediting /Certifying Agency or the clinical affiliate. Each student is instructed to contact the National Board for Certification in Occupational Therapy (NBCOT) for pre-verification of testing and/or questions concerning felony convictions. Telephone: (301-990-7979) [www.nbcot.org](http://www.nbcot.org)

Drug Testing Policy

- Mandatory drug screenings will be performed. Students will not be notified in advance of a mandatory drug screening. The costs associated with the screening are the responsibility of the student.
- A reasonable suspicion screening will be required based on personal, physical, or performance changes. The cost of the drug screening is the responsibility of the student.
- In addition to “Mandatory Drug Testing” and “Reasonable Suspicion Drug Testing”, students are subject to the drug testing policies at any clinical site they may be assigned to and are responsible for all costs related to a clinical site’s drug testing.
• Any Occupational Therapy Assistant student who has a positive drug screen will be subject to disciplinary action and immediate dismissal from the program.
• Re-entry into the Occupational Therapy Assistant program will not be considered following a positive drug test.
• Any Occupational Therapy Assistant student who refuses to perform or to pay for a mandatory drug screen, a drug screen requested due to reasonable suspicion, or a clinical site’s drug screen will be considered in direct violation of the Occupational Therapy Assistant program drug testing policy and will be subject to disciplinary action and immediate dismissal from the program.

Policies for Progression and Graduation

Eligibility for a degree in Occupational Therapy Assisting requires successful completion of didactic courses, level I and level II fieldwork rotations, and University–wide Liberal Learning Outcomes.

To be eligible for graduation a student must:
• Achieve a minimum “C” in all prerequisite and OTA didactic courses
• Complete a minimum of 64 combined academic and fieldwork credits
• Complete level I and level II fieldwork rotations as assigned, with a passing grade

Occupational Therapy Assistant Curriculum

<table>
<thead>
<tr>
<th>First Year Fall</th>
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<tbody>
<tr>
<td>BIOL 212 Human Anatomy &amp; Physiology*</td>
<td>3</td>
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<tr>
<td>BIOL 212L Human Anatomy &amp; Physiology*</td>
<td>1</td>
</tr>
<tr>
<td>COMM 101 Freshman Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116 or higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>OTA 201 Introduction to Occupational Therapy*</td>
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<tr>
<td>COMM 102 Freshman Writing II</td>
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<tr>
<td>SSCI 105 Social Sciences</td>
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<tr>
<td>PSYCH 101 Introduction to Psychology</td>
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<tr>
<td>HSCI 105 Essentials for HSCI Professionals (Medical Terminology)</td>
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<tr>
<td>OTA 203 Clinical Kinesiology*</td>
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<th>Second Year Fall</th>
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<tr>
<td>OTA 202 Principles of Performance in OT</td>
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<td>OTA 204 OT in Adult Physical Performance I</td>
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<tr>
<td>OTA 205 Level 1 Fieldwork I</td>
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<tr>
<td>OTA 208 OT in Psychosocial &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>OTA 209 Modalities and Methods for Occupational Therapy &amp; Lab</td>
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<td><strong>Total</strong></td>
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<tbody>
<tr>
<td>OTA 206 Level I Fieldwork II</td>
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<tr>
<td>OTA 207 OT in Adult Physical Performance II</td>
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</tr>
<tr>
<td>OTA 210 Occupational Performance in Children</td>
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</tr>
<tr>
<td>OTA 215 Occupational Performance in the Elderly</td>
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<tr>
<td>OTA 216 Capstone Seminar (Additional Fees May Apply)</td>
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Second Year Summer

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<tr>
<td>OTA 212</td>
<td>Level II Fieldwork II*</td>
<td>5</td>
</tr>
<tr>
<td>OTA 216</td>
<td>Capstone Seminar (Additional Fees May Apply)</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

Total Program Credit Hours: 64

*or 8 Credit hours of Anatomy and Physiology I and II with lab

*An additional semester may be added to the program year depending on fieldwork rotation

*OTA 201 and OTA 203 can be taken within the program requirement year.

**Accreditation**

The Associate of Science in Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). Complete accreditation confirmation is available at:

Accreditation Council for Occupational Therapy Education (ACOTE)
4720 Montgomery Lane Ste.200
Bethesda, MD 20814-3449
http://www.acoteonline.org
1-301-652-AOTA
RADIOLOGIC SCIENCE MAJOR

Bachelor of Science

Mindy Smith-Amburgey, Program Director

Features of Distinction

- Accredited by the Joint Review Committee on Education in Radiologic Technology
- Baccalaureate prepared graduates
- Two activated classroom laboratories and a CR digitizer on site
- Opportunities for advanced education and becoming multi-skilled in specialized imaging modalities
- Clinical rotations through a variety of health care settings, including a Level I Trauma Center, Cardiac Center, Pediatric Hospital, and Outpatient Facilities
- Highly selective program offers personal attention and low student/faculty ratio
- ASRT(R) to BSRT(R) Track offers opportunities for professional and educational advancement to practicing radiographers

From the Faculty

“Radiologic Science is the health profession involved in the direct administration of ionizing radiation for disease diagnosis and injury assessment. Since their accidental discovery in 1895, x-rays have been recognized as an essential tool designed to assist physicians in medical diagnosis. Technological advances and the addition of new imaging modalities now place radiologic sciences among the most dynamic and high-demand fields in clinical medicine.”

Mission

The primary mission/purpose of the Radiological Science Program is to provide challenging academic and clinical education for the development of the student as a compassionate, responsible, and multi competent radiology professional. The faculty is committed to: 1) educating students, in a liberal learning environment, for a life of productive work as a practicing radiographer, 2) guiding students on their journey to becoming life-long learners by modeling continued education, and 3) demonstrating the importance of service to the greater Charleston community.

Accreditation

The Radiological Science Program is accredited by the Joint Review Committee on Education in Radiological Technology (JRCERT). Contact information on the JRCERT is available at:

JRCERT
20 North Wacker Drive, Suite 2850
Chicago, IL 60606-3182
(312) 704-5300
www.jrcert.org
mail@jrcert.org
Licensure

Radiologic Science Program graduates meet the academic and clinical requirements to be eligible to apply to take the American Registry of Radiologic Technology (ARRT) examination. Graduates who pass the ARRT examination are eligible to apply for the West Virginia state license to practice radiology. Application for licensure can be made at the West Virginia Medical Imaging & Radiation Therapy Technology Board in Cool Ridge, WV. Other states may have different criteria for licensure eligibility.

Please Note: Applicants should investigate his or her eligibility to sit for the American Registry of Radiologic Technologist Examination [ARRT - phone (651) 687-0048 or website http://www.arrt.org before enrolling in the Radiologic Science program, or see the RADI Program Chair if they answer yes to the following questions:

- Have you ever been convicted of a misdemeanor, felony, or similar offense in a military court martial?
- Have you had any professional license, permit, registration, or certification denied, revoked, suspended, placed on probation, under consent agreement or consent order, voluntarily surrendered, or subjected to any conditions or disciplinary actions by a regulatory authority or certification board (other than ARRT)?
- Have you ever been suspended, dismissed, or expelled from an educational program that you attended in order to meet ARRT certification requirements?

The ARRT supports 23 ethical rules for practicing RTs that are found on their website.

Admission

Students must first gain general admission to the University of Charleston prior to acceptance into the Radiologic Science Program. A visit to campus to meet with Admissions personnel and program faculty is strongly encouraged. The quota of applicants accepted and enrolled in the Radiologic Science Program is limited by the clinical facilities available.

- Applicants to the BS Radiologic Science Program must complete a minimum of 90% (34 credits) of the freshman year courses of the Radiologic Science Program (see curriculum). Students must achieve a grade of “C” or higher in RADI 101. Introduction to Radiologic Science and RADI 102 Radiation Physics. If a transfer student is accepted into the program, they must complete RADI 101 & RADI 102 with a “C” or higher. Failure to receive a “C” or higher in either course as a transfer or sophomore student will result in termination from the program.
  o Students are admitted to the Radiologic Science Program in the fall semester of the SOPHOMORE YEAR after completing the required 30-37 credits. Admission may be based on a competitive point scale if there are more applicants than open slots.
  o Applicants must have a cumulative grade point average of 2.7 or higher on a 4.0 academic scale.
  o Each applicant is required to submit a satisfactory physical examination, including selected laboratory tests, and a current CPR certification card before the sophomore year. In addition, applicants must complete and pass a criminal background check for admission to the Radiologic Science program. Students who fail to submit or meet the minimum standards of the health examination and/or criminal background check may not be admitted to the Radiologic Science Program.
The Department of Radiologic Science faculty reserves the right to evaluate all transfer credits.

Students requesting to transfer into the Radiologic Science Program from other JRCERT accredited radiography programs (collegiate or certificate) will have all transcripts evaluated and advanced placement may be awarded. Additional departmental testing may be required to determine the student’s retention level and placement. The Radiologic Science faculty will assess competency levels for advanced placement in the program. Contact the Department Chair for questions or more detailed information.

- Applications will be made available to prospective students in March and April with a completion due date of May 1st. Applicants to the Radiologic Science clinical component are evaluated on a competitive basis utilizing a point scale, which occurs at the end of the FRESHMAN YEAR. Points will be awarded for GPA scores (minimum 2.7), college credits completed, and for hours completed at the University. Additional point consideration will be awarded for students who have completed Associate or Baccalaureate degrees. All candidates who meet the program requirements will be reviewed by the admissions committee of the Radiologic Science Program and ranked based on the point scale.

  NOTE: The point scale will be implemented if at the end of the freshman year the qualified student population exceeds the number of clinical openings available. Students are encouraged to strive for high academic achievement and professionalism to help secure their acceptance into the clinical radiography component. The number of clinical openings, which are scheduled to begin the sophomore year, will vary with each class; however, the target number will be approximately 18 students. Please contact Mindy Smith Amburgey, (304) 357-4923, E-mail: mindysmith@ucwv.edu - Chair of Radiologic Science Department, or the University of Charleston, Office of Admissions for additional program information.

- Successful completion of science courses in high school and or college such as mathematics, biology, chemistry, physics, and human anatomy and physiology help academically prepare the student for the radiologic science curriculum.

- Applicants who read, write, and speak English as a second language must demonstrate proficiency in English skills. Additional testing of the applicant may be required before admission to the Radiologic Science Program.

- A personal interview with the Department of Radiologic Science Chair is recommended for all applicants to ensure that applicants fully understand the program and its requirements.

- Students admitted to the clinical component of the Radiologic Science Program will commit to between 25 and 38 contact hours per week depending on the number of support and liberal learning courses completed prior to program entrance.

- Female applicants are required to review the radiography student pregnancy policy before entering the program.

- Applicants to the Radiologic Science Program are encouraged to review the student Radiologic Science Handbook before entering the program. Contact the Program Chair for details about receiving a copy. The Radiologic Science handbook will be reviewed in RADI 101.
• All health science students must complete a criminal background check prior to beginning the clinical component of the sophomore year. This is a confidential process required for compliance with Joint Commission on the Accreditation of Hospitals and Health Care Organizations.

• Each new Radiography class will begin in the fall semester of the sophomore year at the University of Charleston. Students accepted into the Radiologic Science Program will be notified by mail on or before May 30th.

• Students accepted into the Radiologic Science Program will be expected to attend clinical rotations during the shifts of 8:00 a.m. to 4:00 p.m. and 3:00 p.m. to 11:00 p.m. Students will not be scheduled on weekends or holidays observed by clinical facilities.

• Students will be expected to pay any fees associated with clinical readiness obligations such as criminal background checks and lab fees. Any costs associated with uniforms, CPR certification, parking, and textbooks are the responsibility of the student.

Admission Criteria and Technical Standards

1. A Radiologic Science student works directly with sick patients and is frequently exposed to communicable diseases and infections; therefore, the applicant should be in good physical condition and free of communicable disease.

2. A Radiologic Science student must be capable of lifting patients, manipulating heavy equipment, including portable x-ray machines, and handling radiography accessories; therefore, the applicant must have full use of all four limbs and be able to grasp with at least one hand.

3. A Radiologic Science student must have the ability to remain mentally and physically alert to equipment malfunction, and safety hazard warning techniques such as, flashing lights, buzzers, fire alarm, smoke, emergency intercom, pages, monitoring the vital signs and assessing the patient; therefore, the applicant must have the ability to feel, see, hear, and smell.

4. A Radiologic Science student must be capable of long periods of concentration in selecting correct techniques, equipment and safety devices to assure maximum care and safety of the patient; therefore, the applicant should be able to exercise independent judgments under routine circumstances and stressful conditions.

5. A Radiologic Science student will be exposed to minimal amounts of ionizing radiation. Whereby, this may not cause biological changes in the individual, it can cause a harmful effect upon the gestation of a human fetus. Radiographers should take care not to expose the unborn to radiation while pregnant. (See pregnancy policy. A person who is pregnant may not meet the above criteria; however, a pregnant woman may apply and be accepted into the Radiologic Science Program.

ASRT(R) to BSRT(R) Concentration

This concentration is designed to allow Registered Radiographers to complete requirements for the Bachelor of Science in Radiologic Science degree. The curriculum is planned depending upon the academic background of the individual. Students must meet all liberal learning outcomes by course enrollment, transfer, portfolio, or independent learning plan.
Admission to the ASRT(R) to BSRT(R) Track

The applicant must:

- Be eligible for admission to the University
- Hold current American Registry in Radiologic Technology (ARRT)
- Have an earned GPA of 2.7 minimum (on a 4.0 scale) on previous college coursework
- Show evidence of current CPR certification
- Show evidence of meeting clinical education setting’s health requirements
- Complete criminal background check
- Document practical work experience

Curriculum For ASRT® to BSRT® Track

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<td>Intermediate Algebra</td>
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<tr>
<td>HSCI 201 &amp; 201L</td>
<td>Health Care Assessment (unless work experiences substitutes)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HSCI 312</td>
<td>Statistics for Evidence Based Practice (or equivalent)</td>
<td>3 credits</td>
</tr>
<tr>
<td>RADI 302</td>
<td>Cross Section Anatomy (unless work experiences substitutes)</td>
<td>1 credit</td>
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<tr>
<td>RADI 320-323L</td>
<td>Professional Specialization/Lab (unless specialty reg.)</td>
<td>2-5 credits</td>
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<tr>
<td>HSCI 401</td>
<td>Health Leadership &amp; Mgmt. (unless work experience substitute)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HSCI 302</td>
<td>Health Ethics &amp; Policy (unless mid-level icon met)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HSCI 402</td>
<td>Research I</td>
<td>3 credits</td>
</tr>
<tr>
<td>RADI 420-423L</td>
<td>Specialization Clinical Lab (unless work specialty reg.)</td>
<td>3 credits</td>
</tr>
<tr>
<td>UNIV 459 or 460</td>
<td>Senior Capstone</td>
<td>3 credits</td>
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<td><strong>27-30 Credits</strong></td>
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Liberal Learning Outcomes and electives

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<td>Up to 50 credits</td>
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Prior Credit for Associate Degree/Diploma – Decision of Program Chair*

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<td>Approx. 60 credits</td>
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All other graduation requirements will be mandatory including the 30 credits of upper division coursework and resident coursework.

Program Outcomes

To measure Radiologic Science Program effectiveness:

- Students/Graduates will demonstrate competence as an entry level radiographer.
- Students will demonstrate effective communication skills.
- Students/Graduates will employ critical thinking skills in professional practice.
- Students will model professionalism.

Quantitative Program Data Benchmarks for the Joint Review Committee on Education in Radiologic Technology

Minimum quantitative outcomes are as follows:

- Graduates will earn degrees within four (4) years or less from date of program entrance.
- Five-year average credentialing examination (ARRT) pass rate must be 75% or higher.
- Five-year average job placement rate must be 75% or higher within 12 months of graduation.
- Program completion rate must be 60% or higher.
- Employer and graduate surveys will indicate 85% or higher satisfaction.
What You Will Study

The Bachelor of Science in Radiologic Science degree consists of 122 credits, including 69 credits of Radiologic Science, 16 credits of Health Science core, 11 credits of Science and Mathematics, and 29 credits of Liberal Learning Outcomes. Students will also complete approximately 1200 hours of clinical experiences. Coursework is based on a structure of 1 contact hour per credit hour for lecture courses. Clinical experiences are part-time experiences directly associated with didactic material of a course. The student receives one credit for every three hours of actual experience per week during a 15-week semester.

Philosophy

The Radiologic Science faculty believes the practice of medical diagnostic imaging is both an art and a science; the art of human interactions and compassion, and the science of high technology used to produce diagnostic images. In recent decades the trend toward specialization has dominated the health care professions, and radiologic science is no exception. Yet, among its professionals, the current overriding perspective on its future direction is the need to become multi-skilled in order to provide patient care outside the purview of radiologic diagnosis and treatment.

This recognition of the need to expand the scope of practice has encouraged us to prepare students for the real world. A baccalaureate program must reflect advanced learning beyond the technical level and the baccalaureate level radiographer must possess and perform at a higher knowledge and skill level than the technical level. In addition, a baccalaureate degree program in radiologic science must offer upper-division courses within the professional discipline such as advanced patient assessment, expanded patient education, ethical practice, leadership roles, critical-thinking and problem-solving skills, research, and promote multi-credentialing in advanced imaging modalities. Our intention is to present the principles of radiologic science at the baccalaureate degree level in a challenging format that provides the student an opportunity for true personal and professional development.

The curriculum consists of lectures, seminars, demonstrations, online learning, Internet projects, group activities, laboratories at the University, and clinical experiences at nine Charleston area hospitals and outpatient centers. Students are reminded that the program is very structured. Students should consult closely with program faculty and major advisors to ensure that pre-requisites and the University of Charleston’s Liberal Learning Outcomes are met.

Bachelor of Science Degree in Radiologic Science - 2019-2022 Curriculum*

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<td>UNIV 101 University Orientation</td>
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<tr>
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<td>HSCI 105 Essentials for Health Science Professionals</td>
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<tr>
<td></td>
<td>RADI 101 Intro. To Radiologic Science</td>
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<td></td>
<td>BIOL 171 Fundamentals of Anatomy and Physiology</td>
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<td></td>
<td>BIOL 171 Lab Fundamentals of Anatomy and Physiology</td>
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<tr>
<td></td>
<td>COMM 101 Freshman Writing I*</td>
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<tr>
<td></td>
<td>HUMN 1XX Humanities</td>
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| SPRING SEMESTER | UNIV 102 University Experience | 2 |
|------------------| RADI 102 Radiation Physics | 3 |
|                  | HSCI 110 History of Health Sciences | 3 |
|                  | COMM 102 Freshman Writing II | 3 |
|                  | SPCH 103** Oral Communication Fundamentals | 3 |
|                  | BIOL 172 Fundamentals of Anatomy and Physiology II | 3 |
|                  | BIOL 172 Lab Fundamentals of Anatomy and Physiology II | 1 |
|                  | Total: 18 | |

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## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
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<tbody>
<tr>
<td>HIST 211 World Cultures I</td>
<td>ENGL 2XX Literature</td>
</tr>
<tr>
<td>3</td>
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</tr>
<tr>
<td>RADI 201 Radiographic Positioning I</td>
<td>RADI 211 Radiographic Positioning II</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>RADI 201L Clinical Lab I</td>
<td>RADI 211L Clinical Lab II</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>RADI 202 Osteology</td>
<td>RADI 212 Radiographic Exposure</td>
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<tr>
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<tr>
<td>MATH 120 Intermediate Algebra</td>
<td>HSCI 201 &amp; 201L Health Care Assessment &amp; Lab</td>
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<tr>
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## JUNIOR YEAR

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<tbody>
<tr>
<td>RADI 302 Cross Sectional Anatomy</td>
<td>RADI 304 Imaging Equipment</td>
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<tr>
<td>RADI 301 Radiological Positioning III</td>
<td>RADI 311L Clinical Lab IV / Pharmacology</td>
</tr>
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<tr>
<td>RADI 301L Clinical Lab III</td>
<td>HSCI 302 Health Ethics &amp; Policy OR NSCI 345 Issues in Medicine</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>RADI 311 Radiologic Pathology</td>
<td>RADI 320-4 and 320-4L Professional Specializations &amp; Lab</td>
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<tr>
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<td>2-3</td>
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<tr>
<td>HSCI 312 Health Science Stats</td>
<td></td>
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<td>3</td>
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## SENIOR YEAR

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<tbody>
<tr>
<td>HSCI 402 Research I</td>
<td>RADI 410 Radiologic Science Senior Seminar</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
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<tr>
<td>RADI 405 Radiation Biology</td>
<td>RADI 411L Clinical Lab VI</td>
</tr>
<tr>
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<tr>
<td>RADI 420-424L Specialization Lab</td>
<td>HSCI 401 Health Leadership &amp; Management</td>
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<tr>
<td>RADI 401L Clinical Lab V</td>
<td>RADI 498 Clinical Internship</td>
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<td>2</td>
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<tr>
<td>RADI 210 Radiologic Processing</td>
<td>RADI 403 Radiologic Quality Management</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>UNIV 459 or 460 Senior Capstone</td>
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<tr>
<td><strong>Total:</strong> 17</td>
<td><strong>Total:</strong> 14</td>
</tr>
</tbody>
</table>

*The curriculum is subject to change.

Grand total credits for graduation — 122 credits.
Total clinical hours – Approximately 1200 hours.

### Additional Requirements

**Comprehensive Examination/Graduate Competencies**

All students who plan to receive a baccalaureate degree must pass a comprehensive examination during the final semester of the year of expected graduation. The examination for the Radiologic Science major will be prepared and administered by the Chair of the Department of Radiologic Science and the professor of Radiologic Science Senior Seminar course. Additional examinations will be provided for students who do not pass the first examination with an 85% or higher. Students must also complete all graduate level clinical competencies with 85% or higher. Students will not receive a diploma until this requirement has been achieved. Details of the written and practical examinations are available from the department chair.

**Policy for Professional Specializations**

Students will be required for graduation eligibility to select one major area of specialization, i.e., computed tomography, CT; magnetic resonance imaging, MRI; cardiovascular radiography CV; sonography; US or Mammography. The student may select one minor, mammography, M, in addition to one of the major areas listed above. Students will be enrolled in both didactic and clinical rotations courses as part of his or
her professional specialization. The Radiologic Science Department CANNOT guarantee the offering of each modality listed above in the event that a full-time RADI faculty member resigns from his/her position and a faculty member with the appropriate credentials is not available to teach the special modality.

The Radiologic Science faculty will make every attempt to grant students’ requests with regards to specialization selections. Due to limited availability of clinical facilities, the student is NOT guaranteed his or her first choice in specialized modalities. Selections may be determined by the student’s overall University grade point average.

Competency requirements will vary depending on the specialized area selected. Additional classes and or clinical education may be required after graduation from the Bachelor Degree Program at the University of Charleston to be job market prepared, state licensed, or eligible for certification in all specialized areas.

**RADI Program Grading Scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>92-100</td>
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<tr>
<td>B</td>
<td>85-91</td>
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<tr>
<td>C</td>
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<tr>
<td>D</td>
<td>75-79</td>
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<tr>
<td>F</td>
<td>&lt; 75</td>
</tr>
</tbody>
</table>

**Policies for Progression and Graduation**

Radiography students must achieve a minimum grade of “C” in all radiologic science (RADI) courses in order to enroll in the next course in the sequence or to be eligible for graduation. In any radiologic science course (RADI) in which the student earns less than a grade of “C”, the entire course, lecture and laboratory must be repeated to achieve a grade of “C” or higher. **NOTE:** All students must complete the entire Radiologic Science Program within a period of four years (48 months) from the time of the first enrollment in the clinical component of the curriculum. Candidates for the Radiologic Science degree who do not complete all requirements within a four-year period will be dismissed from the program.

At the conclusion of all semesters, except the semester immediately preceding graduation, radiography students with a grade point average below 2.0 will not be permitted to register for the next radiologic science course. Students with a grade point average between 2.0-2.2 will be placed on academic probation.

To be eligible for graduation, the Radiologic Science student will be required to develop, maintain and submit a portfolio for evaluation.

**Policy for Holding Students**

Students enrolled in the University who have completed portions of the clinical component of the Radiologic Science Program, but are currently not enrolled in radiologic science courses may be readmitted to the radiography clinical component under the following conditions:

- The student must be academically admissible.
- The student must take all radiologic science courses in the sequence published in the Catalog.
- The student must have a minimum overall grade point average (GPA) of 2.0.
- The student must have completed all deficiencies with a “C” or higher.
• The student must otherwise meet all the conditions for any other student in the University.

Policies Governing Repeat of Radiologic Science Courses

• Students requesting to repeat a radiologic science course must have a minimum overall grade point average of 2.0 before being re-admitted to a radiologic science course.
• Students may repeat a radiologic science course one time only.
• Students must state in writing their request to repeat any radiologic science course to the director of the Radiologic Science Program.
• Students must complete the Radiologic Science Program within four years (48 months) after admission to the clinical component of the Radiologic Science Program.
• Students may only repeat two (2) radiologic science courses because of academic failure. After the third failure, (“D” or “F”) in a radiologic science course, the student is dismissed from the Radiologic Science Program.

Physical Examinations / Background Check

Each student entering the clinical component (sophomore year) is required to submit a satisfactory physical examination, including selected laboratory tests, criminal background check, and a current CPR certification card, before or at the time of admission to the clinical component of the Radiologic Science Program. Students who fail to meet minimum standards of the health examination/background check may not be admitted to the Radiologic Science Program. Students admitted to the program will be required to provide annual documentation of CPR re-certification, PPD, and flu vaccine and will be responsible for all associated fees.

Uniforms

Students must purchase uniforms as designated by the Department of Radiologic Science. Information will be sent to students accepted into the clinical component and will be presented during student orientation. Addition information and dress code policies are contained within the RADI Student Handbook.

Insurance

For protection of the radiography student, all students enrolling in the radiologic science clinical component will be required to carry medical malpractice insurance for the entire period they are enrolled in the clinical courses. This insurance will be provided by a group policy written for the University. All arrangements are made by the administration. The student pays the allocated premium, which the University will collect.

Radiography students enrolled in the clinical component of the Radiologic Science Program are strongly encouraged to carry personal health and accident insurance.

Transportation

The Radiologic Science sophomore, junior, and senior students must provide their own transportation to and from all clinical education settings (hospitals). In addition, students should expect to pay for parking at the hospitals.

Other Expenses

Students in the Radiologic Science Program may incur expenses related to participation in state and national conferences; however, opportunities for fund raisers may be available to help offset the costs.
RADIOLOGIC TECHNOLOGY PROGRAM

Associate of Science
Professor Jason Wilcox, Program Director

The radiologic technology program develops competence in the knowledge and skills required for radiologic imaging. The integrated curriculum includes 20 hours of general studies credit and 48 hours of radiologic technology credits. The curriculum incorporates both didactic and clinical education components. Students have the advantage of practicing most radiographic procedures on campus in a lab similar to those found in most hospital settings, as well as taking part in direct patient contact during the clinical components of the program.

Upon meeting program completion requirements, graduates are eligible to apply for the American Registry of Radiologic Technology (ARRT) examination. Successful completion of the ARRT exam grants certification required for licensure in West Virginia and most other states. Individuals with prior felony or certain misdemeanor convictions may not be eligible for certification by the ARRT and/or licensure by state agencies. Also, individuals with prior felony or certain misdemeanor convictions may not be permitted to attend clinical due to various clinical site policies. In such cases students would not be permitted to continue in the program or complete the degree. Contact the appropriate licensing agency and the program director for more information.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N Wacker Drive, Suite 2850, Chicago, IL 60606-3182, 312.704.5300, mail@jrcert.org or http://www.jrcert.org

Program Outcomes

The graduate will:

1. Demonstrate effective verbal communication skills.
2. Demonstrate appropriate written communication skills.
3. Assess patient needs and adapt as required.
4. Identify anatomy and appropriate levels of quality on medical images.
5. Utilize equipment to produce quality images.
6. Utilize appropriate radiographic procedures.
7. Practice principles of radiation protection.
8. Conduct themselves in a professional and ethical manner.
9. Students will understand the importance of professional development activities.

Application and Admission

Admission to the program is selective. Acceptance to University of Charleston and meeting program admission requirements do not guarantee admission to the program. The program accepts one class a year for spring semester entry.

It is strongly recommended that applications be received no later than August 15. Qualifying applicants who apply before that date may be given preference over other applicants, at the discretion of the University. Those who apply after that date will be considered until the class is filled.
Criteria for admission are:

- High school graduate or equivalent
- General admission to the University
- Admission fee to the University
- Completion of all prerequisite coursework with a minimum grade of C in each course
- Minimum GPA of 2.5 in all college-level study
- Although it is not required for program admission, students are encouraged to complete an ACT or SAT. In cases of a full class, preference will be given to students with the highest ACT/SAT scores.

Applicants who have completed their prerequisites at University of Charleston and are otherwise qualified for the program are given preference over those who are transferring prerequisites from other colleges or universities.

Students wishing to transfer from another recognized radiologic technology program are evaluated individually after review of college transcripts and ACT or SAT scores. The program faculty make the final decision on admission and placement on the basis of the transcript review, program availability at the time of application, and admission exams created by the program.

The final phase of admission requires passing a technical standards evaluation. Students must be physically able to perform the following tasks to function competently in the field of radiologic technology:

- Manipulate the x-ray tube in all directions
- Insert and remove a cassette from the bucky tray
- Lift 25 pounds of weight from the floor and carry to the exam table
- Assist a simulated patient in moving from a wheelchair and stretcher to the exam table
- Read a doctor’s order/clinical requisition with accuracy
- Observe a patient’s respiration from a distance of 10 feet
- Hear a patient’s verbal request within an exam room

Reasonable accommodations are made for applicants with the proper documentation of a disabling condition.

What You Will Study

<table>
<thead>
<tr>
<th>Program Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number</strong></td>
</tr>
<tr>
<td>University / LLO Requirements</td>
</tr>
<tr>
<td>Program Requirements</td>
</tr>
<tr>
<td><strong>Program Total</strong></td>
</tr>
</tbody>
</table>

Coursework is based on a structure of 1 contact hour per credit hour for lecture courses and 8 contact hours per credit hour for clinical courses.
Program Prerequisites

Applicants are required to complete 14 semester hours of prerequisite study as listed below before being admitted into the program:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 120</td>
<td>Intermediate Algebra</td>
<td>3</td>
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<tr>
<td>BIOL 212</td>
<td>Intro to Human Anatomy &amp; Physiology</td>
<td>3</td>
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<tr>
<td>BIOL 212L</td>
<td>Intro to Human Anatomy &amp; Physiology Lab</td>
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<tr>
<td>HSCI 105</td>
<td>Essential Concepts for Health Science Professionals</td>
<td>1</td>
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<tr>
<td>RADT 101 / RADT 101L</td>
<td>Imaging Procedures I and Lab</td>
<td>4</td>
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<tr>
<td>RADT 107 / RADT 107L</td>
<td>Introduction to Radiology and Patient Care Laboratory</td>
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Program Requirements/Sequence

**Freshmen Fall Semester (Prerequisites)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FRESH 101</td>
<td>Freshman Seminar</td>
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<tr>
<td>HUMN 110</td>
<td>Unheard Voices: Native Americans, Latinos, and African Americans In the Humanities</td>
<td>3</td>
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<tr>
<td>COMM 101</td>
<td>Freshmen Writing I</td>
<td>3</td>
</tr>
<tr>
<td>RADT 108</td>
<td>Radiologic Clinical I</td>
<td>2</td>
</tr>
<tr>
<td>RADT 111 / RADT 111L</td>
<td>Image Procedures II and Lab</td>
<td>4</td>
</tr>
<tr>
<td>RADT 115</td>
<td>Radiographic Physics I</td>
<td>3</td>
</tr>
<tr>
<td>RADT 125</td>
<td>Radiographic Physics II</td>
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**Freshmen Spring Semester**

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<tr>
<td>HUMN 110</td>
<td>Unheard Voices: Native Americans, Latinos, and African Americans In the Humanities</td>
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<td>COMM 101</td>
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<td>3</td>
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<td>RADT 108</td>
<td>Radiologic Clinical I</td>
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<td>RADT 111 / RADT 111L</td>
<td>Image Procedures II and Lab</td>
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<td>RADT 115</td>
<td>Radiographic Physics I</td>
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**Freshmen Summer I**

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<td>RADT 118</td>
<td>Radiologic Clinical II</td>
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<tr>
<td>COMM 102</td>
<td>Freshman Writing II</td>
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**Freshmen Summer II**

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<td>RADT 128</td>
<td>Radiologic Clinical III</td>
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<td>RADT 206</td>
<td>Quality Assurance</td>
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**Summer Total**

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**Sophomore Fall Semester**

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<th>Course Title</th>
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<tr>
<td>RADT 201 / 201L</td>
<td>Image Procedures III and Lab</td>
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<tr>
<td>RADT 203</td>
<td>Image Acquisition</td>
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<tr>
<td>RADT 204</td>
<td>Radiobiology / Radiation Protection</td>
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<tr>
<td>RADT 205</td>
<td>Computers in Radiologic Sciences</td>
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</tr>
<tr>
<td>RADT 208</td>
<td>Radiologic Clinical IV</td>
<td>3</td>
</tr>
<tr>
<td>RADT 210</td>
<td>Radiologic Pharmacology and Drug Administration</td>
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**Sophomore Spring Semester**

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<th>Course Title</th>
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<tr>
<td>SSCI 105</td>
<td>Issues in Social Science</td>
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<tr>
<td>RADT 217</td>
<td>Radiographic Pathology</td>
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<td>RADT 218</td>
<td>Radiologic Clinical V</td>
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<tr>
<td>RADT 229</td>
<td>Advanced Imaging</td>
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<tr>
<td>RADT 230</td>
<td>Capstone Seminar</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
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</table>

Students must maintain a minimum GPA of 2.5 throughout the entire course of study. Program progress requires a grade of C in all required courses. Failure to meet these requirements will result in dismissal from the program.
DEPARTMENT OF PHYSICIAN ASSISTANT
MASTER OF PHYSICIAN ASSISTANT STUDIES (MPAS)

Jennifer Pack, EdD, MMS, PA-C, Program Director and Department Chair

Physician Assistant Profession

Physician Assistants (PAs) are highly trained medical professionals who practice medicine on a physician-led team. They practice in all medical and surgical specialties. PAs take histories and conduct physical exams, order and interpret tests, diagnose and treat illness, counsel on disease and preventive health, prescribe medications, and perform procedures.

Physician Assistants are licensable to practice medicine and have prescription privileges in all 50 states. PAs are provided with a great breadth and depth of medical training, thereby providing the foundation for them to excel in all areas of medicine.

Program Information

Our program is designed to train outstanding physician assistant clinicians, equipped to handle the challenges of practicing medicine in a multifaceted and complex health care system. Our program emphasizes a holistic approach, training students not only in the foundational domains of medical knowledge and patient care, but also to think critically, solve complex medical problems, utilize evidence to make excellent decisions at the point of care, and to communicate effectively with clinician colleagues, other healthcare professionals, and patients of different backgrounds. The following highlights some details of our program:

- **Cohort Size:** 30 students annually, matriculating in January each year
- **Pass/Fail System:** The Physician Assistant profession is built on the concept of teamwork and medicine is rapidly moving in the same direction. The UC PA program reinforces this concept by utilizing a pass/fail grading structure, which facilitates a culture where students strive to elevate their classmates to provide the best care possible for patients, rather than work to outperform one another.

Active and Collaborative Learning: The UC PA program strongly values utilizing innovative educational methods. As a result, a variety of approaches are employed beyond standard lecture, including case-based, problem-based, and team-based instruction. Through our Patient-Centered Care series of courses, students are challenged to develop clinical reasoning skills, think critically, enhance interpersonal and communication skills, apply evidence-based resources, and problem-solve as clinicians and as members of an interdisciplinary health care team. This is accomplished through simulated clinical experiences with standardized patients as well as state of the art simulation mannequins.

Synthesized Medicine Curriculum: Instead of courses addressing content separately in clinical medicine, diagnostic skills, and pharmacotherapeutics, the UC PA program has been designed to integrate all of these components together into specialty-based modules (e.g. Cardiovascular, Pulmonology, Pediatrics) to enhance learning and retention.

Clinical Rotations: Eight, 5-week rotations, including those central to developing primary care skills as well as an inpatient hospitalist and elective rotation.
Mission Statement

The mission of the University of Charleston Physician Assistant Program is to prepare competent physician assistants who value and provide comprehensive, patient-centered, culturally sensitive primary care, and are committed to lifelong-learning, professional growth, community health, and caring for underserved populations.

Vision Statement

Our vision is to foster a culture of learning by employing innovative educational strategies and a team-based approach within a supportive environment and to provide an application-based curriculum centered on critical principles of health and disease.

Program Goals

The goals of the University of Charleston PA Program are to:

- Prepare students to competently provide medical care in the primary care setting
- Foster a commitment to medically underserved populations
- Promote active participation in the community
- Prepare students to assume leadership roles within the PA profession
- Cultivate an environment that encourages student involvement in supporting and sustaining the University of Charleston PA Program following graduation

Program Outcomes

Upon completion of the University of Charleston Physician Assistant Program, graduates will:

Knowledge-Related Outcomes

- Demonstrate knowledge of biomedical sciences and an ability to integrate and apply this knowledge to the care of patients.
- Differentiate between the normal and the abnormal in anatomic and physiologic findings and other diagnostic test data.
- Understand psychological, socioeconomic, cultural, and spiritual dimensions of human health and illness.
- Identify the appropriate interventions for prevention of disease conditions and promotion of healthy living behaviors.

Skill-Related Outcomes

- Gather essential and accurate patient information.
- Competently perform physical examination, basic diagnostic, and therapeutic clinical procedures.
- Interpret, assess, integrate, and apply diagnostic test data and patient assessment information in the process of clinical problem-solving, reasoning, and decision-making.
- Apply the principles of evidence-based medicine to critically evaluate and resolve clinical problems.
Communicate and effectively collaborate with patients and members of the health care team to provide competent comprehensive patient-centered care across the lifespan.

Learn independently with a critical awareness of the scope and limits of one’s knowledge, skills and attitudes.

Values and Attitudes-Related Outcomes

- Commit to a high ethical standard sensitive and responsive to the patient’s needs, culture, age, gender, and disabilities.
- Demonstrate respect, compassion, integrity, and accountability to patients, society, and the profession.
- Create and sustain sound professional relationships with patients and members of the health care team.
- Demonstrate emotional resilience and stability, adaptability, flexibility and tolerance of ambiguity and anxiety with an awareness of the importance of maintaining one’s own well-being.

Accreditation

The Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) has granted Accreditation-Continued status to the University of Charleston Physician Assistant Program sponsored by the University of Charleston. Accreditation-Continued is an accreditation status granted when a currently accredited program is in compliance with the ARC-PA Standards.

Accreditation remains in effect until the program closes or withdraws from the accreditation process or until accreditation is withdrawn for failure to comply with the Standards. The approximate date for the next validation review of the program by the ARC-PA will be September 2026. The review date is contingent upon continued compliance with the Accreditation Standards and ARC-PA policy.

The purpose of accreditation is to establish and maintain standards of quality. The Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) is the agency authorized to accredit PA Educational Programs.

Students graduating from a PA program that holds an active accreditation status at any time during the student’s enrollment are considered graduates of an accredited program, and thus are eligible to sit for the Physician Assistant National Certifying Examination (PANCE). Students must successfully complete the program that was accredited at the time the student matriculated. Certification is required to be eligible for licensure to practice as a Physician Assistant.

To learn more about PA Program accreditation, visit the official ARC-PA website.
To learn more about the PANCE, visit the official National Commission on Certification of Physician Assistants (NCCPA) website

Admission

Admission is highly competitive. Comprehensive information about the UC PA Program admissions process, including GPA and prerequisite requirements, is available at http://www.ucwv.edu/Physician-Assistant-Program/Admissions/.

Two admission pathways have been developed for the University of Charleston PA Program:

- Direct Admission
- PA Fast Track
Direct Admission

Direct admission applicants must have been awarded a bachelor’s degree (or higher) from an accredited institution of higher education prior to the matriculation date for which application is being made. The bachelor’s degree does not have to be completed prior to submitting an application but there must be a feasible plan for degree completion prior to the program start date for which application is being made. Applicants must submit an application through CASPA. Qualifying applicants are then subject to an interview.

In order for us to accurately determine United States educational equivalency, applicants who have completed coursework and/or obtained a degree from an educational institution outside the United States are required to have their educational credentials evaluated by World Education Services (WES) or Education Credential Evaluators (ECE). Evaluation reports should be sent directly from WES or ECE to the UC PA Program.

PA Fast Track

The PA Fast Track is only available to students who are currently enrolled at UC, providing an opportunity for undergraduate students to gain early admittance into the UC PA Program. Students who have completed more than 30 hours or more of college credit from other institutions are not eligible and will be required to apply for admission to the PA program through the Direct Admission process (see above). All other UC students are eligible to apply through the University’s application portal. Highly motivated students can earn a Master’s degree and become eligible to practice in a total of only five years from entering UC as a freshman.

Tuition and Fees

The standard undergraduate tuition rate does not apply to students who matriculate into the UC PA Program. A detailed table outlining the expected total program tuition and fees is available online at http://www.ucwv.edu/Physician-Assistant-Program/Program-Costs/. It should be noted that tuition and fees can change from year to year subject to economic influences, the needs of the university, and needs of the program.

Curriculum

The program totals 110 credit hours. The didactic portion of the curriculum takes place on UC's Charleston campus, and is comprised of four semesters of coursework (including summers). During this time, students are introduced to foundational medical content to prepare them to see patients. Following the didactic phase, students spend one year on clinical rotations, working side-by-side with physicians, physician assistants, and other healthcare practitioners in the field during the eight required rotations.
Program Description

The Doctor of Pharmacy (PharmD) program within the University of Charleston School of Pharmacy is competency-based, with a focus on the implementation of pharmaceutical care in traditional healthcare environments and serving the needs of underserved populations. The overall goal of the curriculum is to develop a competent, highly engaged, generalist pharmacy practitioner who can successfully practice at an entry-level. The curriculum emphasizes the management of disease states and the assurance of quality of care through the analysis of pharmaceutical care outcomes in an integrated, technology-driven environment. In addition, the professional pharmacy curriculum at the University of Charleston entails an interprofessional, competency-based framework, using integrated content and teaching, simulated patient environments, problem-based approaches when appropriate, and experiential exposures threaded throughout. The curriculum has been designed to provide knowledge, teach models of care management, allow students to demonstrate their understanding, and allow plentiful experiential opportunities for practice. Finally, the curriculum is designed to transition learners from dependent to independent, life-long learners as they progress.

The School of Pharmacy is committed to the development of a well-rounded, professionally active pharmacist who is able to demonstrate both technical competence and the embodiment of other essential professional characteristics. Consequently, curricular and programmatic offerings provide instruction, hands-on opportunities, and initiatives designed to encourage the growth and development of professional stewardship, citizenry, responsibility, and active involvement in issues that impact the profession and practice of pharmacy. Students, faculty and staff work together to ensure active participation and the attainment of the community outreach, advocacy, and activism agendas determined annually by the School of Pharmacy.

Mission Statement

The mission of the University of Charleston School of Pharmacy is to prepare pharmacists and scientists to have a positive impact on the community through advocacy, scholarship and innovation. Pharmacy graduates will provide the highest level of interprofessional patient care with an emphasis on serving rural and underserved populations.

Values Statements

- We engage in interprofessional patient care and collaborative community outreach.
- We foster innovative leadership and are committed to the pursuit of excellence.
- We are committed to promoting professionalism and student success.
- We celebrate the accomplishments of our students, faculty and staff.
- We nurture a culture of diversity.
- We live our mission.
Vision Statement
The Vision for the University of Charleston School of Pharmacy is to:

- prepare leaders, educators, and scientists to serve the profession across a diverse spectrum of pharmacy practice.
- advance the Pharmacy profession through innovation, leadership, education and advocacy.
- be a trusted leader and respected resource in collaborative education and health care.
- become nationally recognized for service, community outreach, and a strong voice for rural and underserved populations.

Program Outcomes
The School of Pharmacy has five program outcomes that describe the graduate of the program. These end-of-program outcomes reflect the University of Charleston graduate level liberal learning outcomes (citizenship, communication, creativity, critical thinking, ethical practice and inquiry) as well as the Center for the Advancement of Pharmacy Education (CAPE) Outcomes of 2013. Achievement of these outcomes is evaluated for each student as they progress through the curriculum.

The graduate of the University of Charleston School of Pharmacy will:

- Use scientific principles of inquiry to design, implement and evaluate evidence-based practices to provide complete pharmacotherapy and medication counseling for individual patients and diverse populations.
- Demonstrate critical thinking skills by transitioning foundational knowledge into a patient-centered practice, ensuring safe and effective medication management leading to promotion of improved health, sustained wellness and prevention of disease.
- Collaborate and communicate effectively with patients, caregivers, other healthcare members, policy makers, and members of the community to effectively participate in a team approach to patient care.
- Engage in innovative activities when evaluating and implementing medication distribution and related management systems.
- Demonstrate legal, ethical and professional principles and judgment in pharmacy practice.
- Demonstrate advocacy, cultural awareness, interprofessional activities, leadership, public health strategies, and scholarship as revealed in the individual’s completion and defense of a personal and professional development plan.

Accreditation
The Accreditation Council for Pharmacy Education (ACPE; http://www.acpe-accredit.org/) accredits Doctor of Pharmacy programs offered by Colleges and Schools of Pharmacy in the United States and Puerto Rico. Full accreditation is awarded to a program that has met all ACPE standards for accreditation and has graduated its first class. ACPE conveys its decisions to the various boards of pharmacy and makes recommendations in accord with its decisions. It should be noted, however, that decisions concerning eligibility for licensure, by examination or reciprocity, reside with the respective state boards of pharmacy in accordance with their state statutes and administrative rules.
The University of Charleston School of Pharmacy’s Doctor of Pharmacy program is fully accredited through June 30, 2024 by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60603, (Phone: 312/664-3575; FAX, 312/664-4652, web site www.acpe-accredit.org).

Admission

The University of Charleston School of Pharmacy seeks to identify talented, qualified, and committed individuals through a competitive admissions process. Admission to the program is based on academic ability, active participation in leadership and/or community service activities, and personal characteristics that reflect a commitment to the practice and profession of pharmacy. Prospective applicants must complete 56 credit hours of pre-requisite course work (see pre-requisite requirements below). All pre-pharmacy course work must be completed prior to beginning the professional program. Applicants are strongly encouraged to complete all course work by the end of the spring semester prior to the start of the professional program.

To be considered for admission, an applicant must submit a PharmCAS application, take the Pharmacy College Admission Test (PCAT), and successfully complete, with a C- or above, the required prerequisite course work. The PCAT must have been taken within 3 years of the date of application. While a GPA of 2.75 or above and a composite PCAT score of 50 or above are considered competitive, all applications are individually reviewed. The Medical College Admission Test (MCAT), Dental Admission Test (DAT) or Graduate Records Examination (GRE) may be considered in lieu of the PCAT exam. Applicants are strongly encouraged to submit their application materials early in the fall semester prior to the year they plan to enroll in the pharmacy program. Students, who are interested in committing to the pharmacy program early in the application cycle may apply through the PharmCAS Early Decision program. This is a binding option for candidates who have selected the UCSOP program as their first choice for pharmacy school. The Early Decision deadline is in early September and candidates are encouraged to consult the PharmCAS website for additional information. All University of Charleston Pharmacy Direct Students are required to apply through the PharmCAS Early Decision program.

The School of Pharmacy reviews applications through a rolling admissions process beginning each August and admits students into the program until the maximum class size is reached. Students who are successful in the initial screening process are required to come to the University of Charleston for a personal interview.

Prospective applicants may obtain application materials and additional information on policies, procedures, and fees from the School of Pharmacy’s website at www.ucwv.edu/pharmacy or by contacting the:

Office of Professional and Student Affairs
University of Charleston School of Pharmacy
2300 MacCorkle Ave, SE
Charleston, West Virginia 25304
304-357-4889

Applicants must utilize the on-line Pharmacy College Application Service (PharmCas) and the School of Pharmacy’s supplemental application www.ucwv.edu/pharmacy. Information regarding PharmCas can be obtained at http://www.pharmcas.org.
Students accepted to the School of Pharmacy will be required to submit a non-refundable tuition deposit as explained on the School of Pharmacy website.

UNIVERSITY OF CHARLESTON SCHOOL OF PHARMACY

Prerequisite Coursework

The pre-pharmacy course requirements have been established to ensure that students who enter the professional program will have the knowledge necessary to succeed in our program. The pre-pharmacy coursework must be completed prior to the beginning of the professional program.

Potential applicants may submit their application materials to the Office of Professional and Student Affairs without completing all pre-requisite math, science and social science requirements. However, students must successfully complete all pre-requisite coursework with a grade of “C” or higher prior to the beginning the professional program. Applicants are strongly encouraged to complete all math and science requirements by the end of the spring semester prior to beginning the first professional year. In instances when students must complete pre-pharmacy coursework in the summer prior to the start of their first professional year, it is strongly suggested that only social science coursework be completed during summer sessions.

<table>
<thead>
<tr>
<th>Pre-Requisite Course</th>
<th>Credits</th>
<th>Comments</th>
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<tbody>
<tr>
<td><strong>Math Requirements</strong></td>
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<tr>
<td>Calculus</td>
<td>3</td>
<td></td>
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<tr>
<td>Statistics</td>
<td>2</td>
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<tr>
<td><strong>Science Requirements</strong></td>
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<tr>
<td>General Biology with lab</td>
<td>8</td>
<td></td>
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<tr>
<td>Human Anatomy &amp; Physiology*</td>
<td>8</td>
<td>See asterisk below.</td>
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<tr>
<td>Microbiology with lab</td>
<td>4</td>
<td></td>
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<tr>
<td>General Chemistry with lab</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry with lab</td>
<td>8</td>
<td></td>
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<tr>
<td>Physics with lab</td>
<td>4</td>
<td></td>
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<tr>
<td><strong>Social Science Requirements</strong></td>
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<tr>
<td>Economics</td>
<td>3</td>
<td>Microeconomics or Macroeconomics</td>
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<tr>
<td>English Composition</td>
<td>6</td>
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<tr>
<td>History or Political Science</td>
<td>3</td>
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<tr>
<td>Psychology or Sociology</td>
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*Acceptance of a 300 or 400 level biology course may be eligible for substitution for anatomy and physiology laboratory only if applicant’s home institution does not offer anatomy laboratory and/or physiology lab courses. This is applicable only for anatomy and physiology pre-requisite requirements. Request for this consideration must be submitted in writing using the official Pre-Requisite Course Substitution form.

Tuition and Fees

Tuition and fees for the 2018-19 academic year are $33,250 (tuition = $31,900 and fees = $1,350). Beginning 2019 academic year, a discount on tuition for pharmacy students from West Virginia and surrounding states including Virginia, Maryland, Pennsylvania, Ohio, Kentucky, Tennessee and Washington, D.C., will automatically receive the regional scholarship when they attend UCSOP. The scholarship will provide a $4,750
discount for each year of school. Fees include a Student Technology Fee which covers the use of a laptop computer and hand-held device and the necessary software and other items required to create a technology-mediated learning environment. The computer and hand-held device provided as part of the Technology Fee are mandatory and petitions to use other equipment are not permitted. Also included within the fees is membership to one professional pharmacy student organization of the student’s choice and membership to the West Virginia Rural Health Association. Students in their final year (P4) are required to pay a $200 graduation fee.

Students attending the School of Pharmacy are responsible for securing appropriate housing while in school and for the costs of books or other learning expenses outside of those included within tuition and fees. Further information can be found within the School of Pharmacy Student Handbook (available at www.ucwv.edu/pharmacy).

Transfer of Credit

The School of Pharmacy will evaluate the transfer of credit on a case-by-case basis and is subject to approval by the Office of Academic Affairs. Requests for transfer credit must be made in writing at the time of application for admission to the attention of: The Office of Professional and Student Affairs and include the course number, title, catalog description, and syllabus for each course for which transfer credit is being requested. The request must also include the UC course number and title for the course(s) for which credit is being sought.

All students wishing to transfer to the University of Charleston School of Pharmacy beyond the P1 year must first complete the Advance Transfer Application Process.

Incoming New (P1) Students:

The following criteria must be met for consideration of course credit transfer into the University of Charleston School of Pharmacy Doctor of Pharmacy program:

- Courses are from an Accreditation Council for Pharmacy Education (ACPE) accredited Doctor of Pharmacy program ONLY
- A course grade of “C” or greater has been earned
- The course(s) being considered are live (not internet or simulated courses as they will NOT be considered)
- The course credit was received within three (3) years of requested transfer
- Students requesting transfer credit may be asked to “test-out” the material at the discretion of the faculty member responsible for the UC course.

Course syllabi are required to determine credit equivalency. Courses approved for transfer are limited to six (6) credit hours total. Transfer credit will appear on UC transcript as such. Transfer grades will not be factored into the UCSOP GPA.

Advance Transfer Students (P2-P4):

The following criteria must be met for consideration of course credit transfer into the UC Doctor of Pharmacy program:

- Courses are from an Accreditation Council for Pharmacy Education (ACPE) accredited Doctor of Pharmacy program ONLY
- A course grade of “C” or greater has been earned and the student has an overall GPA of 2.75 in all pharmacy degree credits
• The course(s) being considered are live (not internet or simulated courses as they will NOT be considered)
• The course credit was received within three (3) years of requested transfer
• Students requesting transfer credit may be asked to “test-out” the material at the discretion of the faculty member responsible for the UC course.

Course syllabi are required to determine credit equivalency. Transfer credit will appear on UC transcript as such. Transfer grades will not be factored into the UCSOP GPA.

Additional Information & Student Responsibilities / Student Accountability

There may be policies in the School of Pharmacy’s Student Handbook that differ somewhat from the policies contained in the UC Academic Catalog and/or the UC Student Handbook—e.g., policies pertaining to academic integrity. In such cases, the policies contained in the School of Pharmacy’s Student Handbook take precedence for School of Pharmacy students.

Student Responsibilities

Success in the professional program in pharmacy requires a significant commitment of time, energy, and mental focus to meet the curricular and co-curricular expectations of the program. Students enrolled in the School of Pharmacy should expect to be actively engaged with on-campus curricular requirements from 8:00 a.m. to 5:00 p.m with additional requirements possible. Additional time may be required to complete the experiential portion of the program (introductory and advanced pharmacy practice experiences) and/or other programmatic requirements. Finally, students need to plan for the appropriate time outside of school necessary to meet all their responsibilities.

Criminal Background Checks and Drug Screens

The School of Pharmacy requires criminal background checks on its students prior to admission. Admission to the School of Pharmacy is conditional pending the results of the background check. Failure after admission to comply with required criminal background checks or drug screens will delay progression or render a student unable to complete the professional degree program. Criminal background checks and drug screens are required during the second and third professionals years as a minimum condition of participating in the introductory and advanced pharmacy practice experiences; additional requirements for criminal background checks and/or drug screens may be required by individual experiential sites. The results of the criminal background check and/or drug screen will be shared with experiential sites if requested and refusal by a selected site to admit a student may delay graduation. Students are responsible for the costs of the criminal background checks and drug screens and are required to follow the established procedures for requesting and submitting the results of a criminal background check that are provided in the School of Pharmacy Student Handbook and communicated by the Office of Experiential Education for experiential purposes.

Immunizations

Students admitted to the School of Pharmacy are required to have updated immunization records and acceptance into the program is conditional pending proof of selected immunizations. Students are responsible for the costs of the required immunizations, which can be found in the School of Pharmacy Student Handbook. Students are also responsible for maintaining up to date records of all immunizations/health requirements as outlined in the Introductory and Advanced Pharmacy Practice Experiences Preceptor
and Student Program Manuals in order to begin and/or complete all assigned introductory and advanced pharmacy practice experiences.

**Health Insurance**

Students in the School of Pharmacy are required to have and demonstrate proof of health insurance and acceptance into the program is conditional pending proof of insurance. Students are responsible for the costs of their own health insurance and further information can be found within the *School of Pharmacy Student Handbook*.

**Student Transportation**

Students enrolled in the School of Pharmacy will have a variety of curricular obligations off campus including experiential educational assignments, and community outreach, advocacy, or activism activities. For this reason, students are responsible for securing access to personal transportation. Further information can be found within the *School of Pharmacy Student Handbook*.

**Required Certification Responsibilities**

Upon acceptance to the School of Pharmacy students are expected to participate in and maintain current certification in CPR and First Aid (certification must be for health professionals). Current HIPAA training certification is also required. Further information can be found within the *School of Pharmacy Student Handbook*.

**Professional Liability Insurance**

Students enrolled in the School of Pharmacy have professional liability coverage provided by the University for those activities that are a direct result of student learning, such as participating in experiential learning. Unless purchased by the student, students do not have professional liability coverage for work related (non-School coordinated) activities. The School of Pharmacy strongly encourages students to purchase professional liability insurance and further information can be found within the *School of Pharmacy Student Handbook*.

**Introductory (IPPE) and Advanced Pharmacy Practice Experiences (APPE)**

**Schedule, Placement, and Requirements/Expectations**

Students will begin participating in their introductory pharmacy practice experiences (IPPEs) as early as their first semester of pharmacy school. To meet the IPPE requirements students will be required to visit pre-scheduled experiential sites both during and outside of regularly scheduled class times. The School of Pharmacy reserves the right to schedule IPPEs during summer sessions as necessary for completion of all requirements. Students will generally begin attending their advanced pharmacy practice experiences (APPEs) at an announced time in the month of May following the end of the 3rd professional year. The specific schedule for the 4th year APPEs, rotation locations, and assignments will be communicated by the Director of Experiential Education no later than March 31st of the 3rd professional year.

Students should be aware that not all IPPE and APPE assignments will be located in the Charleston, West Virginia area. In the event rotations are scheduled outside the geographic area, students are expected to secure their own transportation and housing unless otherwise notified. The School of Pharmacy reserves the right to modify assignments and rotations schedules based upon preceptor availability.

Students are responsible for all requirements and expectations as detailed in the Introductory and Advanced Pharmacy Practice Experiences Preceptor and Student
Program Manuals (updated at least annually and located within the “Files” tab of PharmAcademic).

**Advancement and Graduation Requirements**

Advancement of a student in the Doctor of Pharmacy program is evaluated in two major areas: successful completion of required academic work and successful completion of programmatic work or noncredit requirements. A student must complete all the graduation requirements within 6 years after enrolling in the program. The information that follows is only a brief outline of the School of Pharmacy policies, which can be found in detail in the School of Pharmacy student handbook and on the website www.ucwv.edu/pharmacy.

**Student Advancement Requirements**

Student progress will be determined by the School of Pharmacy Academic Standards Committee. The Committee considers course grades and the timely advancement toward program requirements. In order to advance within the program a student must earn no grade below a “C”, maintain a minimum 2.30 grade point average cumulatively for all courses, complete any academic deficiencies and fulfill other programmatic requirements. Failure to accomplish the above requirements will result in a student being placed on academic probation.

Academic dismissal from the School of Pharmacy may occur if a student fails to make satisfactory progress during a period of academic probation, has academic deficiencies that preclude continuation in the prescribed program of study, is placed on academic probation for two consecutive semesters or on academic probation more than twice while in the pharmacy program, or receives less than a 2.30 semester GPA during a period of academic probation. If a student fails more than one APPE rotation in the P4 year, the student will be dismissed from the program immediately.

Students dismissed from the School of Pharmacy may seek re-entry by applying for re-admission during the normal admissions cycle. Students within the School of Pharmacy may retake courses within the professional program in which they have received a grade of “C” at the discretion of the Academic Standards Committee (ASC). Both the initial course grade and the repeat grade earned by the student will be used to calculate the student’s cumulative grade point average (GPA). The second course attempt will be designated on the transcript with an “R” to indicate that the course has been repeated. As previously noted, the specific policy requirements for student advancement, academic probation, and student dismissal can be found in the *School of Pharmacy Student Handbook*.

**Student Appeals Process**

Academic disputes, though rare, are formally adjudicated by employing the process detailed in the *School of Pharmacy Student Handbook*. Academic dismissal from the School of Pharmacy is determined by the Academic Standards Committee. Appeals of decisions of the Academic Standards Committee are made to the Dean of the School of Pharmacy. Students may appeal the Dean’s decisions to the University’s Provost.
Academic Progression Appeals Process

At the end of each academic semester, the Associate Dean for Academic Affairs reviews the academic performance of all students enrolled in the School of Pharmacy and evaluates each student’s qualifications to progress in the professional program. The Associate Dean for Academic Affairs notifies each student placed on academic probation; and furthermore, makes notification of current academic deficiencies to the student and the Academic Standards Committee. Each student that is notified of academic difficulties will meet with the Academic Standards Committee for direction regarding their status within the pharmacy program.

Any student in the School has the opportunity to appeal a decision made by the Academic Standards Committee. Written confirmation of a student’s intent to appeal must be received by the Dean of the School of Pharmacy within five days of the student’s receipt of notification of the decision.

Student Graduation Requirements

To graduate, all students will have earned a passing grade in all coursework, maintained a minimum 2.30 grade point average cumulatively for all courses as calculated by the Office of Academic Affairs within the School of Pharmacy and the successful completion of other programmatic requirements as outlined within the School of Pharmacy Student Handbook.

SCHOOL OF PHARMACY GRADE POINT AVERAGE (GPA)

The grade point average (GPA) used for the purposes of annual progression, graduation, or Dean’s List is calculated by the Office of Academic Affairs within the School of Pharmacy. Cumulative GPAs are calculated by dividing the total grade points earned by the total number of semester credit hours completed. To determine academic standing, grade point averages are rounded to the third decimal place (nearest 0.001 point).

For students granted the opportunity to repeat a failed course the GPA calculated within the School of Pharmacy may differ slightly from that calculated for an official transcript created by the University of Charleston’s registrar. Repeated courses, taken at the University of Charleston School of Pharmacy will be calculated into the School of Pharmacy GPA by replacing the grade of “F” with the earned grade and the corresponding course points. The grade of “F” will still be maintained on the student record but will no longer be used in the calculation of the cumulative GPA.

Dean’s List

The School of Pharmacy has two Dean’s Lists: one per semester and one for the academic year. Students will be acknowledged for the Dean’s List via a letter from the Dean as well as posted accordingly. The grade point average (GPA) used for the Dean’s List is calculated by the Office of Academic Affairs within the School of Pharmacy.

The Semester Dean’s List includes the names of pharmacy students who are pursuing the PharmD degree and have attained a semester GPA of 3.50 in their final grades for at least 12 semester hours. Appropriate entries regarding inclusion on the Dean’s List are made on the student’s permanent academic record.

The Annual Dean’s List is recorded on the academic transcript of graduate pharmacy students who are pursuing the PharmD degree and have achieved a semester GPA of 3.50 in 12 or more semester credit hours each semester of the academic year. Students who are on the Annual Dean’s List receive a certificate.
SPECIAL REQUIREMENTS

The West Virginia Board of Pharmacy requires fifteen-hundred hours of internship experience for a student to be considered for licensure. Students are required to obtain an Intern License from the Board of Pharmacy to accrue intern hours. Any hours accrued before becoming a registered intern do not apply toward the intern hours needed to be considered for licensure. Credit will be given for experiential coursework during the Doctor of Pharmacy degree. To determine the specific number of hours that can be applied, please check the website for the West Virginia Board of Pharmacy http://www.wvbop.com or the Board of Pharmacy in the state in which you are seeking to become licensed.

The Board of Pharmacy holds final authority over the internship rules and regulations and students are advised to check the West Virginia Board of Pharmacy website for updates or changes to any requirements. Board of Pharmacy requirements vary from state-to-state and it is the student’s responsibility to verify the requirements of the state in which he/she intends to become licensed. Information regarding the various states can be found via the National Association of Boards of Pharmacy website http://www.nabp.net/.

e-Portfolio

An e-Portfolio is a purposeful aggregation of digital items which may include ideas, evidence, reflections, feedback and other documents which present evidence of a student’s learning and/or abilities. An e-Portfolio provides:

- an opportunity for reflection, discussion, formative and summative assessment.
- a depiction of the student’s achievements and growth as they progress through the pharmacy program
- evidence of personal development (PDP) and documentation of continuing professional development (CPD) and/or achievement of professional competencies.
- evidence that may be valuable when making application for a job, residency, or continued education.

All pharmacy students are enrolled in a non-credit e-Portfolio course each semester during P1, P2, and P3 years. Working in consultation with their academic advisors’ students upload a series of required and self-selected documents into an electronic file which upon completion of the pharmacy program provides valuable artifacts/evidence that essentially comprises a professional portfolio for graduates as they enter pharmacy practice. Students upload information, evidence, and reflection at the end of each semester. Deadlines are communicated at the beginning of each academic year. Portfolios are graded as Pass (P) or Fail (F) by the student’s academic advisor.

During P4 year, pharmacy students are registered for an e-Portfolio course worth one credit during either fall or spring semester. The student defends orally his/her portfolio in the semester in which he/she is registered for the e-Portfolio course.

More information about the e-Portfolio courses and requirements can be found in the School of Pharmacy Student Handbook.
Programmatic Changes

The School of Pharmacy reserves the right to make changes as needed to the academic program, School of Pharmacy policies and other program requirements. Notification of such changes will be provided via the website www.ucwv.edu/pharmacy and electronic communication as well as reflected in the subsequent years School of Pharmacy Student Handbook.

RESIDENCY PROGRAM

The University of Charleston School of Pharmacy offers two PGY-1 residency positions. Our PGY-1 Community residency is in partnership with Fruth Pharmacy and has an emphasis in community pharmacy practice. Our PGY-1 Pharmacy residency has an emphasis in ambulatory care and academia. Each PGY-1 residency program builds upon the Doctor of Pharmacy curriculum and provides advanced knowledge and skills regarding drug therapy and pharmacy services. The pharmacy residents are licensed practicing pharmacists in training to gain additional clinical skills and expertise.

A unique feature of the programs is the opportunity to experience the many roles and responsibilities of the faculty member. In addition to clinical practice experience, residents will work with a preceptor and School of Pharmacy faculty to prepare and deliver selected classes. Residents also have opportunity to develop, deliver, and assess a course under the supervision of the preceptor. They also participate in School of Pharmacy committees and faculty meetings and attend University faculty meetings. At the completion of the residency, residents receive a teaching certificate. Our residency programs are 12 months in duration. Our PGY-1 Pharmacy residency program with an emphasis in ambulatory care and academia is accredited by the American Society of Health Systems Pharmacists. The PGY-1 Community residency is jointly accredited by the American Society of Health Systems Pharmacists, and the American Pharmacists Association.

PHARMDO_MB DUAL DEGREE PROGRAM

Pharmacy can be described as a dual profession in that it involves both clinical and managerial skills and responsibilities. The Doctor of Pharmacy (PharmD) is a specialized degree that allows one to obtain the requisite clinical skills that are required to practice pharmacy in today’s environment. The practice of contemporary pharmacy requires a pharmacist who is able to market and manage both resources and personnel within a dynamic health care environment. Those students who wish to lead in their healthcare environments and have a competitive advantage in terms of technical acumen and managerial prowess should explore the dual degree offering at the University of Charleston which combines the Doctor of Pharmacy (PharmD) and the Masters of Business Administration (M.B.A) course content. The Master of Business Administration degree (M.B.A.) is considered the best preparation to obtaining the requisite managerial skills needed to operate in the constantly changing pharmaceutical and healthcare environments.

Objectives

The major goal of the joint Doctor of Pharmacy/Masters of Business Administration (Pharm.D./MBA) program is to educate student pharmacists to assume responsibilities as managers, administrators, consultants, and executives in health care systems designed to
provide health care to their patients. Health care managers need a broad organizational overview to successfully plan, organize, lead, and control in the dynamic health care environment. They need to know how to motivate, lead, and work with others to accomplish organizational and personal objectives. To this end, the program is directed toward providing the education students need to develop an understanding of the major functional areas in health care organizations, and to design strategic plans and policies to cope with the changing pharmaceutical and health care environments. By combining a “generalist” management degree with a Doctor of Pharmacy degree, students will gain the requisite skills to do this and will realize additional career opportunities upon graduation.

The dual degree is designed to aid students who seek positions of management and leadership that require a combination of patient care and management skills. Examples of these positions include, but are not limited to:

- Pharmaceutical Marketing
- Institutional formulary development and management
- Chain or Independent store pharmacy management
- Pharmacoeconomics in industry and managed care
- Managed Care Management
- Biotechnology
- Management of any health care institution (hospital, health-system, etc)
- Professional association work (e.g., APhA, NCPA)
- Outcomes research
- Monitoring clinical trials
- Project management in health care
- Teaching in a college of pharmacy

Today’s healthcare managers need a broader organizational overview to successfully plan and control their respective areas of authority and responsibility. They need to know how to motivate, lead, and work with people around them to accomplish organizational and personal objectives. The MBA degree is ideal in that the student pharmacist will acquire these skills to be competitive in the rapidly changing health care environment.

The MBA program at the University of Charleston is an innovative program for individuals who want to advance their careers and broaden their education backgrounds. The courses focus on making students active participants in their learning. The program requires students to work in cohorts throughout the curriculum targeting improving the effectiveness and efficiency of a West Virginia health care organization. This is accomplished through:

- **Problem solving and Teamwork.** You will learn creative thinking and the importance of group interaction in problem solving. Specific emphasis is placed on recognizing potential problems, analyzing possible solutions, and initiating proper guidelines to prevent recurrence.
- **Business writing and public speaking.** The program emphasizes efficient and clear business writing and speaking confidently and clearly in presentations.
- **International Practicum:** Today's business is not conducted in a vacuum, and today's business leaders need a working knowledge of global business. During the International Business & Trade module, student pharmacists participate in an international practicum lasting approximately ten days, during which they have
opportunities to personally observe the business practices of a particular region of the world. Recent destinations have included China, Ireland, Panama, and Brazil.

- **Senior capstone.** A component of each course requires that you work in your team to analyze and make recommendations for a West Virginia Health Care organization. This results in a great learning experience for the team and practical suggestions for improvement for the participating organization.

**Advantages of the UC PharmD/MBA Program**

- Significant reduction in cost of obtaining the MBA degree
- Professional career training
- Sequential program allowing completion concurrent to earning the Pharm.D. degree
- Individual instruction and small classes
- No need to relocate job, family, or home
- Hybrid based instruction in that student pharmacists will meet in-seat one night per week for eight weeks during the semester. In addition, there is an on-line component to each course. Student pharmacists will attend classes during either the first or second seven weeks of each semester in which they have pharmacy courses.

**Please refer to the section of this Catalog about the University of Charleston School of Business and Leadership for further details on the MBA Program.**

**Admissions Process & Criteria**

Applicants must be a full-time P1 student at UCSOP with a minimum of a 3.00 cumulative grade point average at the time of application AND at the end of the P1 year. Having a 3.0 grade point average during the first two semesters of the pharmacy program does not guarantee admittance. A minimum of four students is needed to administer a PharmD/MBA cohort and no more than five students will be admitted each year. On successful completion of PharmD and MBA, both degrees will be conferred together at May commencement.

**MBA Application Requirements:**

1. A completed MBA Application.
2. A personal statement that discusses career goals and other relevant information (question #24 on the MBA application).
3. Three recommendations (one from your pharmacy advisor, one from another pharmacy faculty member, and one from an employer or non-UCSOP faculty member); recommendation forms can be found on the UC MBA website.
4. Submit a letter of good academic/professional standing from the Dean of the UCSOP.
5. Submit all graduate and undergraduate transcripts (can be copies from your UCSOP admissions file).
6. A cumulative GPA of at least 2.75 in undergraduate work (may be waived for PharmD students). Submit a current Resume.
7. Complete a Personal Interview with the MBA Program Director.
8. A bachelor’s degree from a regionally accredited institution (waived for qualified PharmD students).
9. At least three years of professional work experience. UC PharmD students satisfy requirement through Introductory Pharmacy Practice Experience (IPPE) and Advanced Pharmacy Practice Experience (APPE).
10. Undergraduate business prerequisites of Accounting, Economics, and Statistics (3 credit hours each); PharmD students missing the accounting prerequisite must successfully complete an approved undergraduate Principles of Accounting course or Massive Open Online Course (MOOC) the summer prior to starting MBA coursework.

All application materials must be submitted to the UCSOP Office of Professional and Student Affairs (OPSA) by the communicated deadline date in the spring semester.

Application Review Process

Completed applications are reviewed by the UCSOP PharmD/MBA Review Committee, which includes the following faculty/administrators: the UCSOP Associate Dean for Academic Affairs, the UCSOP Assistant Dean for Professional and Student Affairs, and the UCSOP PharmD/MBA Program Liaison (Dr. David Latif).

1. The PharmD/MBA Review Committee conducts the initial application review and makes recommendations to the Dean of the UCSOP.
2. The Dean of the UCSOP will recommend eligible candidates to the MBA Program Director (Dr. Rick Ferris)
3. The MBA Program Director will interview applicants upon receipt of the completed application and receipt of the UCSOP Dean’s recommendation.
4. The MBA Program Director and MBA Admissions Committee in the School of Business and Leadership (UCSBL) determine admission to the MBA program.
5. Students will be notified of program admission or declination by mid-May of each year by the MBA Program Director.

Progression in the PharmD/MBA Program

To remain in good standing in the MBA program, students must maintain a 3.0 GPA in all business coursework. If a student in the joint PharmD/MBA program experiences academic difficulty in the Doctor of Pharmacy program (defined as having a GPA below 2.75 for two consecutive semesters), he/she will be required to meet with the UCSOP Academic Standards Committee and may be required to withdraw from the MBA program.

If a student chooses to withdraw from the PharmD program but wishes to continue with the MBA program, he/she must first have completed a Bachelor’s Degree to receive the Masters in Business Administration, and the discounted MBA tuition for PharmD students will no longer apply. In addition, some work experience is a requirement of the MBA program. Student pharmacist applicants satisfy this requirement by virtue of their successful completion of the required Introductory Professional Practice Experience (IPPE) and Advanced Professional Practice Experience (APPE) obtained through the PharmD curriculum. Therefore, withdrawing or dismissal from the pharmacy program could result in additional requirements to satisfy the required professional work experience. Any student wishing to make this type of change is strongly encouraged to speak with BOTH the PharmD/MBA Liaison (Dr. David Latif) and the MBA Program Director (Dr. Rick Ferris) BEFORE withdrawing.

Disclosures

Students enrolling in the PharmD/MBA program do so with the understanding that four students are needed to run a cohort and therefore, admission does not guarantee matriculation (enrollment). In addition, PharmD/MBA students may be limited in their
IPPE and APPE or assigned rotation blocks at the discretion of the UCSOP Director of Experiential Education. Students receiving financial aid should be aware that completing these programs simultaneously increases the cost of attendance. It is very likely that students enrolled in the PharmD/MBA program will exceed their Stafford loan amounts (limits) each year. Additional loans including Graduate Plus or personal loans may be necessary to cover the full cost of the program.

**SCHOLAR IN GERIATRIC PHARMACY TRACK**

The Scholar in Geriatric Pharmacy at the University of Charleston School of Pharmacy consists of service-learning hours, community outreach projects, a geriatrics-focused research project, professional development opportunities, geriatrics-focused didactic experiences, and IPPE/APPE rotations. This track will prepare students to provide optimal patient-centered care for older adults, emphasizing the broader aspects of care for geriatric patients, with focus on social determinants of health and age-related pharmacokinetic/pharmacodynamic changes that influence therapy management. At the completion of all requirements, students will be awarded a certificate as a Scholar in Geriatric Pharmacy.

**Objectives and Activities**

- **Provide Geriatrics-Related Service to the Community**
  - Service Learning: Complete 100 hours of volunteer work in an area serving older adults by the conclusion of the fall semester of the P-4 year.
  - Outreach Project: Geriatric Education Series—Students will be involved in presenting educational sessions centered around safe medication use and preventative health to seniors and their caregivers.

- **Engage in Geriatrics-Related Research**
  - Research Project: Students are required to complete a research project with a focus on improving care for geriatric patients OR advancing geriatric pharmacy practice. Each student is required to submit their research for potential presentation at a local, state, or national meeting.

- **Participate in Geriatrics-Related Professional Development**
  - Align ePortfolio Personal and Professional Development Plan with Scholar Outcomes.
  - Attend West Virginia Geriatrics Society (WVGS) meeting annually during the P2, P3, and P4 year.
  - Attend either the American Society of Consultant Pharmacists (ASCP) or the American Geriatrics Society (AGS) meeting at least once during the P2-P4 years.

- **Complete Geriatrics-Related Didactic and Experiential Curricular Components**
  - Phar 715: Pharmacy Management
    - Present a proposal for a new geriatric pharmacy-related service.
  - Phar 729: Geriatric Pharmacotherapy
    - Enroll in 3-credit hour elective course for P3 fall semester.
  - Phar 742: Advanced Drug Literature Evaluation
    - Present one journal club on a geriatric topic.
  - Phar 716L: Introductory Pharmacy Practice Experience (IPPE) IV
Complete 30 clinical patient care hours with a BCGP faculty preceptor.
- Phar 821-828: Advanced Pharmacy Practice Experiences (APPE) I-VIII
- Complete 2, 5-credit hour rotations related to geriatrics.
  - One 5-credit hour rotation with a BCGP preceptor
  - One 5-credit hour rotation in a geriatrics-focused practice site and/or with a predominantly geriatric patient population

**Scholar Outcomes**

By completing this track, students will be able to:
- Recognize geriatric syndromes and the biological, physical, cognitive, psychological, and socioeconomic changes commonly associated with aging.
- Advocate to older adults and their caregivers medication safety and preventative health measures to optimize overall health, safety, function, independence, and quality of life.
- Demonstrate the ability to conduct a geriatrics-focused research project and assess its impact on patient care and/or geriatric pharmacy practice.
- Display commitment to geriatric pharmacy by developing and maintaining competence, enhancing professional practice, and supporting achievement of career goals through active participation at the local, state, and national levels.
- Describe how population-based care influences patient-centered care, and the development of practice guidelines applied to geriatric patients.
- Design and modify safe and effective individualized treatment and monitoring plans for geriatric patients including non-pharmacologic and pharmacologic options.

**Application Process:**
Students may apply to the track at the conclusion of their P-1 year and must have a minimum Pharmacy School GPA of 3.0. Students must submit a copy of their unofficial transcript, CV, a letter of recommendation from their advisor, and a 1-2 page letter of intent detailing their interest in the track and future career goals. No more than four students per class will be accepted at each year.
ASC 089. Reading  
This course introduces effective reading skills, including vocabulary skills, dictionary skills, main ideas and supporting ideas, study strategies, skimming and scanning, reading comprehension, reading interpretation, and figurative language. The skills learned in this course can be applied to all other courses.

ASC 090. English Grammar  
Designed for students who need to review basic English grammar skills: simple sentences, run-ons and comma splices, parts of speech, subject/verb agreement, modifiers, and pronoun choice.

ASC 091. PACS (Personal Academic College Success)  
Designed to help students explore their academic deficiencies, build self-confidence, set short and long term goals, make a plan to reach these goals, implement this plan and evaluate progress. The course helps students learn the processes and tools necessary to succeed as an undergraduate. The course is open to all students, but is mandatory for those students who are admitted provisionally and/or on academic probation. Failure to attend class could result in dismissal from the University.

ASC 095. Study Skills  
Introduces effective study skills, including listening, scheduling and organizing time, reading techniques, improving memory, test taking, and note taking. The skills learned in this course can be applied to all other courses.

ASC 100. College Reading  
Designed for good readers who want to become better readers. Emphasis will be placed on reading rapidly while maintaining high levels of comprehension. Students will learn to pick out details and generalize complex material while reading quickly.

ACCT 201. Principles of Accounting  
A study of basic concepts, principles and procedures of accounting for business entities. Topics include the accounting cycle, basic accounting systems, preparation of financial statements, and accounting for assets and liabilities. (offered in fall and spring; offered online in fall)

ACCT 202. Principles of Accounting II  
Continuation of the study of basic concepts, principles, and procedures of accounting. Topics include partnership and corporation accounting, statement of cash flows, financial statement analysis, and managerial accounting with emphasis on decision making. Prerequisite: ACCT 201. (offered in fall and spring; offered online in fall)

ACCT 280. Introduction to Forensic Accounting  
An introduction to the practice of forensic accounting. Topics include an overview of forensic accounting concepts, including fraud theory, types of engagements, methodologies and ethical considerations. Prerequisites: ACCT 202, BUSI 231.
ACCT 301. Intermediate Accounting I 3 credits
A study of generally accepted accounting principles with emphasis on the application of accounting theory, standards and procedures to financial accounting problems. Topics include conceptual framework, statements of income, stockholders’ equity, financial position, and cash flows, time value of money, and current and operational assets. Prerequisite: ACCT 202 with a grade of C or better. (offered in fall; offered online in spring)

ACCT 302. Intermediate Accounting II 3 credits
Continuation of the study of financial accounting theory and practice. Topics include accounting for current and long-term liabilities, long-term investments, stockholders’ equity, and statement of cash flows. Prerequisite: ACCT 301. (offered in spring; offered online in spring)

ACCT 322. Cost Accounting 3 credits
A study of the fundamentals of cost determination in manufacturing and service establishments from an accounting perspective, with emphasis on the significance and interpretation of cost data. Prerequisite: ACCT 202. (offered in spring; offered online in fall)

ACCT 350. Special Topics 1-3 credits
Variable credit 1-3 credits; may be repeated a maximum of two semesters. Advanced study of topics not covered in regularly scheduled courses through directed study or specially scheduled lectures, depending upon the topic. Prerequisite: Consent of instructor.

ACCT 360. Accounting Information Systems 3 credits
A study of accounting information systems: their development, control and applications. Prerequisite: ACCT 301 or consent of instructor. (offered in spring; offered online in summer of even-numbered years)

ACCT 403. Intermediate Accounting III 3 credits
Continuation of ACCT 302, with concentration on the more technical areas of financial accounting. Topics include disclosure, financial statement analysis, revenue recognition, and accounting for deferred income taxes, pensions, and leases. Prerequisite: ACCT 302. (offered in fall)

ACCT 412. Advanced Accounting 3 credits
A study of advanced specialized areas of financial accounting. Topics include partnership formulation, operation, and liquidation, consolidated financial statements, foreign currency translation, and governmental accounting. Prerequisite: ACCT 302. (offered in fall; offered online in spring)

ACCT 423. Federal Taxes – Individual 3 credits
This course is a study of income tax law as it affects individuals including taxable income, deductions, and gains and losses on capital assets. If the student is pursuing a Concentration in Financial Planning, this course is one of seven required courses in the concentration that prepares students desiring to take the CFP ® Certification examination. Prerequisites: ACCT 301 or consent of instructor (offered fall of odd-numbered years; offered online in spring of even-numbered years)

ACCT 424. Federal Taxes – Business 3 credits
A study of the effects of tax laws on corporations, partnerships, estates and trusts. Prerequisite: ACCT 301 or consent of instructor. (offered fall of even-numbered years; offered online in spring of even-numbered years)
ACCT 425. Tax Research 3 credits
A study of the techniques of tax research with emphasis on library research of tax laws, regulations and court cases. Prerequisite: ACCT 423 or 424.

ACCT 448. Auditing 3 credits
A study of generally accepted auditing standards and techniques of auditing financial information. Analysis and application of auditing concepts and standards will be emphasized. Topics include professional ethics, professional judgment, audit risk analysis, internal control study and evaluation, evidence, legal liability, and audit process and procedures. Prerequisite: ACCT 302. (offered in spring; offered online in fall)

ACCT 462. Accounting Ethics 3 credits
A study of ethics, professional responsibility, professional codes of conduct, and corporate governance. Ethics cases will be analyzed using an ethical decision-making model. Prerequisite: ACCT 302 (offered in spring; offered online in summer of odd-numbered years)

ACCT 498. Accounting Internship 1-12 credits
Application of accounting concepts and theories in the workplace. Prerequisite: Senior Accounting majors or juniors by recommendation of the major advisor.

ART (ART)

ART 100. Drawing 3 credits
Designed as an introductory course to the problems of non-verbal communication through freehand drawing. Emphasis is on objective and subjective drawing from nature and the posed model using various graphic media. Elements and principles of art are incorporated into the drawing process.

ART 105. Design Foundations 3 credits
Designed as an exploration of the elements and principles of two- and three-dimensional design expressions offering first-year students experiences in concept development, visual problem-solving and visual communication. Offered fall semester.

ART 125. Exploration of 3-D Art Forms 3 credits
Exploration of Art Forms: Designed to explore traditional and contemporary concepts, materials, skills, and techniques of three-dimensional art forms. Prerequisite: ART 105.4

ART 200. Appreciation of Visual Arts 3 credits
Designed as an introduction to fostering an appreciation and developing an understanding of past and present visual art forms with attention given to the language of the artist and response of the viewer. A focus on the experiences of seeing and interpreting art in aesthetic, intellectual, emotional and cultural contexts.

ART 201. Painting 3 credits
Designed with an emphasis on traditional and contemporary painting tools, techniques, methods, media and surfaces. Emphasis is on understanding visual structural elements and creative use of color.

ART 203. Art History I: Ancient to Gothic 3 credits
Designed as a comprehensive overview of the history of art forms and styles through painting, sculpture, architecture and other major art forms, beginning with the prehistoric era and concluding with the Middle Ages. Offered spring semester on a three-year rotation.

ART 204. Art History II: Renaissance to 20th Century 3 credits
A continuation of development of the art forms beginning with the 15th Century through 20th Century.
ART 211. Art and Medicine  
3 credits  
Designed for students entering the healthcare field who will be involved with patients. In this course the student will start out by learning how to draw the various organ systems of the body in health. Students will learn about common pathologic disorders of those organ systems. Students will incorporate this material and draw representations of these pathologic conditions. Said drawings would then be used to explain disease states to patients. The skills mastered in this course will also facilitate documentation by allowing the practitioner to place an original drawing in the medical record.

ART 215. Graphic Design Basics  
3 credits  
Introductory course for non-art majors. This course will address concept, process, and terminology necessary to create and edit digital images and text for various types of visual work. Course will focus on the basics of design and manipulating and formatting images and text for presentation utilizing Adobe Photoshop, Adobe Illustrator, and InDesign.

ART 223. Art History: Modern Art  
3 credits  
Designed as a survey of the development of painting, sculpture, photography, and architecture beginning with post-Impressionism and extending through the major schools of art to present innovators and independents of world cultures.

ART 230. Graphic Design I  
3 credits  
This course will explore concept, process, and terminology necessary to create and edit digital images and text for various types of visual work. Course will focus on manipulating and formatting images and text for presentation. This course will also introduce the principles of multimedia design utilizing Adobe Photoshop, Adobe Illustrator and InDesign. Prerequisite: ART 100 and/or ART 105. (Cross-listed as ICOM 230.)

ART 231. Innovation in Art and Business  
3 credits  
This course is intended for business majors who want to enhance their creative thinking and ability to innovate. The course will explore and examine various theories, methods, and modes of creativity and how they relate to increasing these skills in business domains. The course provides many opportunities to apply these new ways of thinking through individual and group exercises and a final capstone project, where the major will develop creative concepts for an assigned project/topic.

ART 250. Photography  
3 credits  
Designed as a study of basic skills and techniques of photography and equipment. Emphasis on photography as an art form. Student must have own camera.

ART 301. Life Drawing  
3 credits  
This course is an introduction to rendering landscape, animals, and human figure through a variety of techniques and art-making materials. Prerequisite: ART 100, ART 201.

ART 305. Studio I  
3 credits  
This course allows students to participate in advanced projects in various media with program faculty. Prerequisite: ART 100, ART 105, ART 201, prior experience in media required, or permission of instructor.

ART 310. Studio II  
3 credits  
This course allows students to participate in advanced projects in various media with program faculty. Prerequisite: ART 100, ART 105, ART 201, prior experience in media required, or permission of instructor.

ART 330. Graphic Design II  
3 credits  
A continuation of ART 230. This course focuses on advanced problems in the use of type, image, color, grid systems, advertising techniques, and electronic publication.
Students learn advanced techniques in traditional graphic design, website design, and desktop publishing. Emphasis will be on developing concepts and preparing professional comprehensive layouts and final artwork. Prerequisite: ART 230.

**ART 335. Illustration 3 credits**
This course is designed to introduce students to the art of illustration. Students will learn about various disciplines and media of illustration. Additionally, the course will explore a wide range of traditional approaches to illustration, digital imaging, and technical and conceptual development. Professional practice will be emphasized. Prerequisite: ART 100, ART 201, ART 230.

**ART 340. Typography 3 credits**
An exploration of typographical structures, terminology, and methods as a tool of visual problem solving. This studio course uses both computer and hands-on methods to address the language of type and its effective use. By studying the language of type through its history, and application, students will gain a strong working knowledge of this essential element to graphic design. Prerequisite: ART 230.

**ART 341. Art Education and Instruction 3 credits**
The course introduces ways to effectively integrate art into the K-6 classroom and allow teacher candidates and other future educators to develop a deep understanding of artistic methods and techniques, art media and materials, effective classroom procedures, and the National and State content standards. Candidates discover the importance of integrating arts across the curriculum through a hands-on approach in developing personal artistic skills, proper classroom procedures, and interdisciplinary art lesson plans and activities.

**ART 350. Special Topics 3 credits**
This course is designed to offer the student a broad selection of in-depth topics or special periods in art. Some of the topics offered will focus upon building the skills needed by those pursuing a career in art and related fields.

**ART 410. Ideas and Practice 3 credits**
This course allows students to pursue a long-term project while concurrently learning historical and current trends in art movements, styles, and theory. Preparatory course for Senior Thesis – required for seniors.

**ART 457. Senior Capstone & Exhibit 1-9 credits**
This course consists of independently planned projects in a selected area of study, subject to approval by the art faculty. The exhibition/capstone will consist of in-depth study, assigned readings and thesis and creation of a cohesive body of work. The student will keep a daily diary of her/his problems, development and growth in knowledge and awareness. Additionally, graduating seniors will be required to complete several hours of service learning that will fulfill Citizenship/Community Involvement LLO 1.4.

**ATHLETIC TRAINING PROGRAM (ATEP)**

**ATEP 100. Orientation to Athletic Training 2 credits**
An introductory clinical course discussing the basic prevention, assessment, and management techniques for athletic injuries. Students will be instructed in the policies and procedures of the Department of Athletic Training through discussion of the AT Student Handbook. Students will rotate through a variety of clinical experiences while being exposed to hands-on clinical skills. Laboratory fee: $50.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ATEP 201</td>
<td>Practicum I</td>
<td>4</td>
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<td></td>
<td>A clinical/practicum course designed for students in their first semester of acceptance into the AT Program. Specific psychomotor skills and proficiencies are required to be met during the student’s clinical education experience. Prerequisite: Formal admission to the ATP, “C” or better in ATEP 213 and ATEP 213L Laboratory fee: $125.</td>
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<tr>
<td>ATEP 202</td>
<td>Practicum II</td>
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<td>A clinical/practicum course designed for students in their second semester of enrollment in the AT Program. Specific psychomotor skills and proficiencies are required to be met during the student’s clinical education experience. Prerequisite: Formal admission to the ATP, “C” or better in ATEP 201 &amp; ATEP 225. Laboratory fee: $125.</td>
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<tr>
<td>ATEP 213</td>
<td>Prevention and Care of Athletic Injuries</td>
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<td>A general overview and basic introduction to the many facets of sports medicine/athletic training, focusing on the prevention and care of athletic injuries, and the role of the athletic trainer and the sports medicine professional (i.e., record keeping, initial injury evaluation and recognition, treatment, and legal concerns) Co-requisite: ATEP 213L</td>
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<tr>
<td>ATEP 213L</td>
<td>Prevention and Care of Athletic Injuries Lab</td>
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<td>This clinical-oriented course deals with the prevention, assessment, and management techniques of athletic injuries. This “hands-on” lab must be taken concurrently with ATEP 213. Laboratory fee: $125.</td>
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<tr>
<td>ATEP 224</td>
<td>Assessment of Upper Extremity Injuries</td>
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<td>This course discusses the proper assessment and management of injuries to the shoulder, elbow, forearm, wrist, hand, and fingers. The student will learn how to recognize and evaluate common injuries of the physically active to these areas of the body in classroom settings. Competencies and psychomotor skills taught in the course will be reinforced through structured laboratory/practical experience. Prerequisites: formal admission to the ATP, “C” or better in ATEP 225 &amp; ATEP 201</td>
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<td>ATEP 225</td>
<td>Assessment of Lower Extremity Injuries</td>
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<td>This course discusses the proper assessment and management of injuries to the pelvis, hip, thigh, knee, lower leg, ankle, and foot. The student will learn how to recognize and evaluate common injuries of the physically active to these areas of the body in a classroom setting. Additionally, competencies and psychomotor skills taught in the course will be reinforced through structured laboratory/practical experiences. Co-requisite: ATEP 201; Prerequisites: Formal admission to the ATP, “C” or better in ATEP 213 and 213L.</td>
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<tr>
<td>ATEP 226</td>
<td>Assessment of the Head, Spine, and Thorax</td>
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<td>This course discusses the proper assessment and management of injuries to the head, spine, and thorax. The student will learn how to recognize and evaluate common athletic injuries to these areas of the body in classroom settings. Additionally, competencies and psychomotor skills taught in the course will be reinforced through structured laboratory/practical experience. Prerequisites: formal admission to the ATP, “C” or better in ATEP 225 &amp; ATEP 201</td>
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Prerequisite for all 300 level ATEP courses is a “C” or better in all 200-level courses, as well as in BIOL 301/301L, 302/302L.

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<th>Course Code</th>
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<tr>
<td>ATEP 301</td>
<td>Practicum III</td>
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<td>A clinical/practicum course designed for students in their third semester of enrollment in the AT Program. Specific psychomotor skills and proficiencies are required to be met during the student’s clinical education experience. Prerequisites: Formal admission to the</td>
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ATP, “C” or better in all 200-level ATEP courses, as well as BIOL 301/301L, 302/302L Laboratory fee: $125.

**ATEP 302. Practicum IV**  
4 credits  
A clinical/practicum course designed for students in their fourth semester of enrollment in the AT Program. Specific psychomotor skills and proficiencies are required to be met during the student’s clinical education experience. Formal admission to the ATP, “C” or better in ATEP 301 & ATEP 313. Laboratory fee: $125.

**ATEP 313. Therapeutic Modalities**  
4 credits  
The purpose of this class is to educate the student in the function and role of therapeutic modalities in the treatment of injuries. Actual application of course material will be reinforced through “hands-on” experience with a vast majority of modalities used in sports medicine today through the incorporation of laboratory experiences. Prerequisites: Formal admission to the ATP, “C” or better in all 200-level ATEP courses, as well as BIOL 301/301L, 302/302L

**ATEP 323. Therapeutic Exercise & Rehabilitation Techniques**  
4 credits  
This course deals with the theory and practice of therapeutic exercise and rehabilitation techniques as they relate to the physically active. Lecture and labs will be used to demonstrate proper techniques typically administered to patients in the rehabilitative environment. Students are eligible to sit for the Corrective Exercise Specialist (CES) exam through the National Academy of Sports Medicine (NASM) upon successful completion of the course. Prerequisites: Formal admission to the ATP, “C” or better in ATEP 301 & ATEP 313

Prerequisite for all 400 level ATEP courses is a “C” or better in all 300-level courses.

**ATEP 401. Practicum V**  
4 credits  
A clinical/practicum course designed for students in their fifth semester of enrollment in the AT Program. Specific psychomotor skills and proficiencies are required to be met during the student’s clinical education experience. Prerequisite: Formal admission to the professional level AT Program, “C” or better in all 300-level ATEP courses. Laboratory fee: $125.

**ATEP 402. Practicum VI**  
4 credits  
A clinical/practicum course designed for students in their sixth semester of enrollment in the AT Program. Students will work closely with a variety of medical professionals in the community to develop competency and proficiency in general medical knowledge and skill. Students will explore and discuss critical questions and contemporary issues related to the profession. Specific psychomotor skills and proficiencies are required to be met during the student’s clinical education experience. Prerequisite: Formal admission to the ATP, “C” or better in ATEP 401 & ATEP 413. Laboratory fee: $125.

**ATEP 413. General Medical Concerns of the Physically Active**  
3 credits  
This course is designed to discuss the common general medical concerns that may be encountered in the Sports Medicine/Athletic Training field. Advanced evaluation techniques will be demonstrated and practiced in the assessment of common injuries and conditions to the eye, ear, nose, throat, thorax, lungs, abdomen, heart, genitourinary/gynecological and neurological systems. Prerequisite: Formal admission to the ATP, “C” or better in all ATEP 300-level coursework

**ATEP 475. Senior Thesis**  
3 credits  
This course is the culmination of the didactic and clinical education experiences from previous courses, including an exploration of the foundational behaviors within the
profession. This course will also assist students in preparing for the BOC Examination. Prerequisite: all 100, 200, and 300 level ATEP courses must be completed and/or consent of the Chair of the Department of Athletic Training. Laboratory Fee: $125.

ATEP 499. Independent Study in Sports Medicine 1-3 credits
Students will be individually supervised in a research or field experience. Prerequisite: Junior or senior standing and permission of the discipline coordinator.

**BIOLOGY (BIOL)**

BIOL 126. Scientific Portfolio Writing Course 1 credit
This portfolio class is designed for Biology, Pre-Pharmacy, and Pre-Professional Biology majors and will serve to facilitate student writing in the field of science. The portfolio will enable students to obtain the intermediate or mid-level writing icon. This icon will be achieved over a two-year period. It will be linked by science courses typically taken by students during their freshman and sophomore years. Spring semester. Prerequisites: BIOL 130, BIOL 215 or BIOL 224.

BIOL 127. Microbiology for Allied Health Majors 3 credits
A course intended for some majors in the health sciences. It provides an introduction to the microbes of clinical interest. Structure, function, and physiology of microbes and host interactions are stressed. These aspects form the basic foundation to introduce the principles of isolation, identification, infection, pathogenesis, and virulence of microbes. Emphasis will be given to antimicrobial chemotherapy and clinically important microorganisms associated with human tissues. Fall semester Co-requisite: BIOL 127L

BIOL 127L. Microbiology for Allied Health Majors Lab 1 credit
The laboratory will include microscopy, staining, and both physiological and serological methods of identification. Laboratory fee: $50. Co-requisite: BIOL 127

BIOL 130. Introductory Biology for Majors 3 credits
An introductory course in General Biology. It is intended for science majors. It is directed toward an understanding of the scientific method, the chemical basis of living organisms, the structure of cells (eukaryotic and prokaryotic), and the processes of life that constitute the functions of cells. Throughout the course the practical significance of material is highlighted to demonstrate the applications of basic knowledge and emphasize those components necessary for further study in the sciences. Fall and Spring Semesters. Co- requisite: BIOL 130L

BIOL 130L. Introductory Biology for Majors Lab 1 credit
The lab emphasizes practical understanding of the chemistry of life, cell functions and structures as well as broad practical applications of ecology. Laboratory fee: $50. Co- requisite: BIOL 130.

BIOL 171. Fundamentals of Anatomy and Physiology for Health Sciences I 3 credits
A lecture course that presents the fundamentals of human anatomy and physiology for health science students. The course will cover biological principles related to essential cellular and chemical components, tissues, integumentary, skeletal, muscular, immunology, and nervous systems. Emphasis will be placed on the relationship of anatomy and physiology to clinical applications that health sciences students will experience throughout their education and careers. Further study of the anatomy of the systems along with application of physiological processes will occur in the laboratory portion of the course. Offered every fall semester. 3 credit hours
Pre-requisites: None, Co-requisites: BIOL 171L
BIOL 171L. Fundamentals of Anatomy and Physiology for Health Sciences I Lab 1 credit
A laboratory course that presents the fundamentals of human anatomy and physiology for health science students. The lab will cover the biological principles related to essential cellular and chemical components, tissues, integumentary, skeletal, muscular, immunology, and nervous systems. There will be heavy emphasis on anatomy in the laboratory with some reinforcement of physiology covered in the lecture. Images, models, and prosections will be used to learn the anatomical structures. This is a 2-hour lab each week. There is a $50 lab fee. Offered every fall semester. Pre-requisites: None. Co-requisites: BIOL 171.

BIOL 172. Fundamentals of Anatomy and Physiology for Health Sciences II 3 credits
A lecture course that presents the fundamentals of human anatomy and physiology for health science students. The course will cover the endocrine system, cardiovascular system, respiratory system, digestive system, renal system, and reproductive system. Systems will be covered on a molecular, cellular, tissue, and organ level. Emphasis will be placed on the relationship of the anatomy and physiology to clinical applications that health science students will experience throughout their education and careers. Further study of the anatomy of the systems along with application of physiological processes will occur in the laboratory portion of the course. Offered every spring semester. Pre-requisites: BIOL 171 and BIOL 171L. Co-requisite: BIOL 172L

BIOL 172L. Fundamentals of Anatomy and Physiology for Health Sciences II Lab 1 credit
A laboratory course that presents the fundamentals of human anatomy and physiology for health science students. The course will cover the endocrine system, cardiovascular system, respiratory system, digestive system, renal system, and reproductive system. Systems will be covered on a molecular, cellular, tissue, and organ level. There will be heavy emphasis on anatomy in the laboratory with some reinforcement of physiology covered in the lecture. Images, models, and prosections will be used to learn the anatomical structures. This is a 2-hour lab each week. There is a $50 lab fee. Offered every spring semester. Prerequisites: BIOL 171 and BIOL 171L, Co-requisite BIOL 172.

BIOL 212. Introduction to Human Anatomy and Physiology 3 credits
A science course designed for students pursuing an associate’s degree in the allied health sciences. The course will cover all body systems. Systems will be covered on a molecular, cellular, tissue, and organ level. There will be heavy emphasis on anatomy with an overview of key physiological processes. Anatomy and physiology is essential for students preparing for a career in any of the allied health sciences. Offered every fall. Beckley campus only. Co-requisite BIOL 212L

BIOL 212L. Introduction to Human Anatomy and Physiology Lab 1 credit
A science laboratory course designed for students pursuing an associate’s degree in the allied health sciences. The course will cover all body systems. Systems will be covered on a molecular, cellular, tissue, and organ level. There will be heavy emphasis on anatomy with an overview of key physiological processes. Anatomy and physiology is essential for students preparing for a career in any of the allied health sciences. Offered every fall. Beckley campus only. Laboratory fee: $50. Co-requisite: BIOL 212.

BIOL 213. Basic Medical Terminology 1 credit
A course designed for students working toward degree in the health sciences. The course will introduce students to the component parts of medical terms and their definitions, as well as
other commonly used medical terms. The course will cover terms based on a body systems approach. Offered online every fall.

**BIOL 215. General Botany 3 credits**
A study of the structure and function of plant systems; reproduction, heredity, physiology, characteristics of the various plant groups, and ecological relationships. This learning experience is designed to foster a basic understanding of the concepts of biology as they relate to plants as model systems. Required of all Biology majors. Prerequisite: BIOL 130. Offered every spring semester. Co-requisite BIOL 215L.

**BIOL 215L. General Botany Lab 1 credit**
The lab emphasizes plant structure, propagation, secondary metabolites, cell structure, physiology and genetics. Students are required to develop a basic research project and prepare a research paper on a topic relating to plants. Laboratory fee: $50. Co-requisite: BIOL 215.

**BIOL 224. General Zoology 3 credits**
An introduction to the structure and function of animals, including a survey of the natural history of the important phyla. This learning experience is designed to foster a basic understanding of the concepts of biology as they relate to animals. Students are required to develop a basic research project and prepare a research paper on a topic relating to animals. Required of all Biology majors. Offered every spring semester. Prerequisite: BIOL 130. Co-requisite BIOL 224L.

**BIOL 224L. General Zoology Lab 1 credit**
The lab emphasizes the identification of common vertebrates and the application of broad ecological processes. Laboratory fee: $50. Co-requisite: BIOL 224.

**BIOL 242. Domestic Animal Science 3 credits**
Domestic Animal Science is designed for pre-veterinary students and those interested in zoology. With a large portion of pre-veterinary students not having experience with large animals, this information is applicable to the study of veterinary medicine. Domestic animal science will cover basic knowledge of farm animals and practices. In addition, there are specific lessons on cattle, pigs, and sheep and goats. Prerequisite BIOL 130. Offered summer semester online.

**BIOL 301. Human Anatomy and Physiology for Majors I 3 credits**
An in-depth study of human anatomy and physiologic processes. This course will include, but not be limited to the integumentary, skeletal, muscular, and nervous systems. These systems will be covered on a cellular, tissue, organ, and system level. Offered every fall semester. Prerequisite: BIOL 130. Co-requisite: BIOL 301L.

**BIOL 301L. Human Anatomy & Physiology for Majors I Lab 1 credit**
The lab will include dissection of select organs. The lab will supplement and enhance the lecture material through application. Offered every fall semester. Laboratory fee: $50. Co-requisite: BIOL 301.

**BIOL 302. Human Anatomy and Physiology for Majors II 3 credits**
A continuation of BIOL 301. The remainder of the course will include but not be limited to the endocrine, cardiopulmonary, gastrointestinal, urinary, and reproductive systems. These systems will be covered on a cellular, tissue, organ and system level. Offered every spring semester. Pre-requisite: BIOL 301 or permission of the instructor. Co-requisite: BIOL 302L.
BIOL 302L. Human Anatomy and Physiology for Majors II Lab 1 credit
The lab will include dissection of select organs as well as dissection of a pig. The lab will also supplement and enhance the lecture material through application. Offered every spring semester. Laboratory fee: $50. Co-requisite: BIOL 302.

BIOL 303. Medical Terminology 3 credits
Medical Terminology for the Biology Major is designed for those students entering in any discipline in the healthcare field. This course will teach the students the language of medicine which will facilitate their post graduate education. The course covers medical terminology by covering the various systems of the body such as integument, cardiac, pulmonary, etc. Offered each spring semester. Prerequisites: BIOL 301/302 or permission of instructor.

BIOL 304. Physical Assessment 3 credits
This course will introduce students to physical exam techniques. Content areas will include: Taking a health history, clinical reasoning, documentation of findings, health promotion and counseling, and a comprehensive system-based overview of physical exam techniques. This course is designed for Pre-Medicine, Pre-Physician Assistant, Pre-Pharmacy students, and/or any other student interested in pursuing a patient contact medical career. Offered on demand. Prerequisites: BIOL 251 or BIOL 301; Co-requisite: BIOL 304L.

BIOL 304L. Physical Assessment Lab 1 credit
This lab will include the practical demonstration of foundational physical exam techniques. Content areas will include: Taking a health history, clinical reasoning, documentation of findings, health promotion and counseling, and a comprehensive system-based overview of physical exam techniques. This course is designed to complement content from BIOL 304 and serves Pre-Medicine, Pre-Physician Assistant, Pre-Pharmacy students, and/or any other student interested in pursuing a patient contact medical career. Offered on demand.

BIOL 321. Animal Parasitology 4 credits
This class is the study about the lifecycles of animal parasites. The course emphasizes biological, physiological, morphological and ecological principles of human and domestic animal parasites. Other parasites of biological interest will also be covered. This course will include a 2-hour lab each week. The lab will include in part the dissection of select mammals and will serve to supplement and enhance lecture material. Offered on demand. Prerequisites: BIOL 130, NSCI 220, BIOL 224. Laboratory fee: $50.

BIOL 331. Microbiology for Majors 3 credits
This course is a general introduction to microbiology with a focus on prokaryotic organisms. Microorganisms to be examined include bacteria, viruses, and fungi. This class will cover a wide variety of topics in Microbiology including physiology, genetics, diversity, pathogens, biotechnology, and ecology. Prerequisites: BIOL 130 and CHEM 102. Co-requisite: BIOL 331L.

BIOL 331L. Microbiology for Majors Lab 1 credit
The laboratory will include microscopy, staining, microbial identification and independent research projects. Prerequisites: BIOL 130 and CHEM 102. Laboratory fee: $50. Co-requisite: BIOL 331.

BIOL 332. Genetics 3 credits
A study of Mendelian genetics, the laws governing inheritance, congenital human defects, and the statistical analysis of data collected. Discussions also include molecular
genetics, and population genetics. Offered every spring semester. Prerequisites: BIOL 130, NSCI 220, BIOL 224 or BIOL 215. Co-requisites: BIOL 332L

**BIOL 332L. Genetics Lab** 1 credit  
Laboratory investigations include classical Mendelian genetics, probability and molecular biological techniques such as gel electrophoreses and PCR. Long term Drosophila experiments provide students with opportunities to test various hypotheses. Offered every spring semester. Laboratory fee: $50. Co-requisites: BIOL 332, BIOL 332L.

**BIOL 333. Immunology** 3 credits  
A study of the principles of immunity, pathogenicity, virulence, and toxicities. Cellular and humeral immunity and the interaction of the two will be discussed and a thorough study of antigens, antibodies, and their reactions in vitro and in vivo are considered. Offered every fall semester. Prerequisites: BIOL 130/130L, NSCI 220, BIOL 224/224L, BIOL 331/331L. Laboratory fee: $50.

**BIOL 333L Immunology Lab** 1 credit  
The laboratory will emphasize the study and analysis of these reactions, their application to diagnosis, systematics, and principles of immunity. Co-requisite BIOL 333.

**BIOL 361 Advanced Anatomy: The Circulatory System** 2 credits  
Advanced Anatomy of the Circulatory System is an in-depth study of the heart and blood vessels. The course will cover details of the circulatory system not included in standard undergraduate Anatomy and Physiology courses. The course is designed to be a preparatory for students entering medical school. Prerequisites: BIOL 301 and BIOL 302.

**BIOL 362. Advanced Anatomy: The Nervous System** 2 credits  
Advanced Anatomy of the Nervous System is an in-depth study of the brain, spinal cord, and peripheral nerves. The course will cover details of the nervous system not included in standard undergraduate Anatomy and Physiology courses. The course is designed to be preparatory for students entering medical school. Prerequisites: BIOL 301 and BIOL 302.

**BIOL 363. Advanced Anatomy: The Musculoskeletal Systems** 2 credits  
Advanced Anatomy of the Musculoskeletal System is an in-depth study of the muscles and their origin, insertion, innervation, blood supply, and action. The course will cover details of the nervous system not included in standard undergraduate Anatomy and Physiology courses. The course is designed to be preparatory for students entering medical school. Prerequisites: BIOL 301 and BIOL 302.

**BIOL 370. Physiology of Exercise** 3 credits  
This course will provide the student with a base of knowledge on the physiological effects of exercise on the human body and its application across a variety of activities and disciplines. Prerequisites: BIOL 251 and 252 or BIOL 301 and 302.

**BIOL 400 Ecology** 3 credits  
A study of living organisms in their natural environment, including their biological productivity, their effects on the environment, and its effect on them. Field trips are an essential part of this course. Students should be aware that this course may be physically demanding and may require overnight work and extended periods away from campus. Offered every other Fall semester in odd numbered years. Prerequisites: BIOL 130 and BIOL 215 or 224.

**BIOL 400L. Ecology Lab** 1 credit  
The lab emphasizes the practical application of ecological concepts in a laboratory and field setting. Offered every other Fall semester in odd numbered years. Laboratory fee: $50. Co-requisite: BIOL 400.
BIOL 413 Systematic Botany 4 credits
A study of the development and application of current systems of vascular plant classification. Laboratory emphasis is on classical taxonomic methods of plant identification, collection, and preservation. Laboratory includes field trips to local areas. Offered on demand. Prerequisites: BIOL 130, NSCI 220, BIOL 215. Laboratory fee: $50.

BIOL 419 Microbial Ecology of Health and Disease 3 credits
Students will learn about the diversity and function of the microbial communities associated with eukaryotic hosts. Themes include (1) overview of the microbial communities living in close association with animals, plants, and humans, (2) emergent theories about how both beneficial and negative interactions with the microbiome affect the overall health, growth and development of the hosts, (3) the ecological concept of disease (dysbiosis) as it pertains to human health and (4) the microbiological, molecular, bioinformatics and statistical approaches used to study microbial communities. Perspectives on these topics will be explored via the current primary literature on each theme. Pre-requisites: BIOL 331, NSCI 220 Co-requisite: BIOL 419 L. Offered every Spring.

BIOL 419 L. Microbial Ecology of Health and Disease Laboratory 1 credit
Students will use classic and current laboratory techniques to study and to learn about the diversity and function of the microbial communities associated with animals, plants and humans. Techniques include culture dependent methods such as selective and enrichment cultures and community level physiological profiles as well as molecular based methods. Students will carry out a project to characterize the microbiome of a healthy or diseased host. Students will also explore the current bioinformatic and statistical approaches used to analyze the data generated on these studies. Offered every Spring.

BIOL 420 Introductory Pathophysiology I 3 credits
A study of the changes in normal function that occur in response to stress. The patterns of development of a diseased state will include the etiology of the disease and the ability of the human structure to maintain its homeostasis. Prerequisites: BIOL 130 or BIOL 301 & BIOL 302. Offered in rotation with BIOL 421 and 422 in spring semester.

BIOL 421. Introductory Pathophysiology II 3 credits
A continuation of BIOL 420. A study of the changes in normal function that occur in response to stress. The patterns of development of a diseased state will include the etiology of the disease and the ability of the human structure to maintain its homeostasis. (Note: BIOL 420 is not a prerequisite) Prerequisites: BIOL 130 or BIOL 301 & BIOL 302. Offered in rotation with BIOL 420 and 422 in spring semester

BIOL 422. Embryology 3 credits
The morphology, developmental patterns, and mechanisms of cellular differentiation in human fertilization, implantation and embryo and fetus formation will be explored. Human reproductive systems will be reviewed and hormonal control mechanisms leading to gamete development will be discussed in depth. Prerequisites: Prerequisites: BIOL 130/130L, NSCI 220, BIOL 224/224L, BIOL 301/301L and BIOL 302/302L. Offered in rotation with BIOL 420 and BIOL 421 in spring semester. Co-requisite: BIOL 422L

BIOL 422L. Embryology Lab 1 credit
Laboratory exercises will examine the morphology of developing embryos and discussions of congenital malformations. Co-requisite: BIOL 422. Laboratory fee: $50. Offered in conjunction with BIOL 422.
BIOL 425 Tropical Ecology 3 credits
This course is a study of living organisms in tropical environments. It is taught during semester break at biological research stations in Brazil and Costa Rica. Special emphasis is on tropical ecosystems and their unique niche in the biosphere. In addition to the science aspects of the learning experience, students will interact and work with university professors, students, and various native cultures from the respective area. Offered on demand. Prerequisite: Consent of the instructor.

BIOL 430 Limnology 4 credits
A course designed for upper-level students in Biology and Natural Sciences. Limnology is the study of freshwater rivers, lakes, streams, and ponds. In the course students will investigate the physical, biological, and anthropogenic factors influencing aquatic systems. Students will be engaged in small group research projects applying the tools of limnology research. As part of this project students will be engaged in projects that will include field data collection, statistical analysis, and bio-assessment of water quality and a presentation of the final results. This is a field and lab work intensive course. At least one overnight field trip will be required. Offered on demand. Prerequisites: BIOL 130, BIOL 215, BIOL 224, CHEM 102, SSCI 220. Laboratory fee: $50.

BIOL 451. Cell and Molecular Biology 3 credits
An upper level class devoted to the study of molecular aspects of genetics and cell biology. In addition to basic cell biology, the course will introduce molecular genetics and regulation of prokaryotic and eukaryotic gene expression. Special consideration will be given to structure and function of genes and regulatory proteins. Prerequisites: BIOL 130, BIOL 331, CHEM 102, NSCI 220. Offered every fall in even numbered years. Co-requisite: BIOL 451L

BIOL 451L. Cell and Molecular Biology Lab 1 credit
Laboratory emphasis will include basic techniques of gene technology such as: restriction mapping, cloning, polymerase chain reaction (PCR), electrophoresis and bacterial transformation. Prerequisites: BIOL 130, BIOL 331, CHEM 102, NSCI 220. Laboratory fee: $50. Offered every Fall in even numbered years. Co-requisite: BIOL 451.

BIOL 453. Virology 3 credits
The course is a general overview of the biology of viruses. Topics will include an introduction to the major classes of viruses, their distinct features, life cycles, and applicable diseases. The course will also investigate molecular aspects of viral replication and host’s role during virus infection. Major emphasis will be placed on animal viruses. The course will include detailed investigation of current topics in the scientific literature including discussion of case studies. Prerequisites: BIOL 130, BIOL 331, CHEM 102, SPCH 103. Offered every spring odd numbered years. Co-requisite: BIOL 453L

BIOL 453L. Virology Lab 1 credit
Laboratory emphasis on manipulation of prokaryotic viruses as model systems including isolation, quantitative, reproduction, and burst techniques. Laboratory fee: $50. Offered every spring odd numbered years. Co-requisite: BIOL 453

BIOL 495. Research in Science 3 credits
The independent investigation of a topic in science. Used to satisfy the departmental research requirement of all science majors. Students must complete BIOL 495 before enrolling in BIOL 496. Registration for BIOL 495 requires the signature of the individual in charge of the BIOL 495 learning experience. This research experience allows the student to receive credit for conducting their research. Students taking this course will
work with a faculty research mentor and will complete a formal research paper upon completion of the project. This course, along with BIOL 496 and 497 represents the capstone learning experience for the Biology Program. Offered each fall semester. Prerequisites: Consent of the instructor, BIOL 126 and NSCI 220.

**BIOL 496. Seminar in Science** 1 credit
The presentation of a seminar concerning the student’s research experience. This course is taken during the spring semester of a students’ senior year. Registration for BIOL 496 requires the signature of the individual in charge of the BIOL 496 learning experience and cannot be completed on-line. Students are required to demonstrate proficiency in communicating their research project orally to an audience, using electronic presentation software. During their presentation students may be questioned concerning all levels of outcomes in the Biology Program as part of a summative assessment of the student’s progress. This course, along with BIOL 495 and 497 represents the capstone learning experience for Biology. Offered each spring semester. Students are not permitted to take BIOL 496 until they have achieved a minimum grade of “P” in BIOL 495.

**BIOL 497. Science Research Portfolio** 1 credit
This course is the compilation of a portfolio about a students’ capstone experience. It is taken during the spring semester of a student’s senior year, concurrently with BIOL 496. This part of the capstone experience requires students to demonstrate proficiency in compiling a record of their experience in each of the sections that make up the capstone experience. Offered each spring semester. Students are not permitted to submit their Research Portfolio unless they have successfully completed BIOL 495 with a minimum grade of “P”.

**BUSINESS ADMINISTRATION (BUSI)**

**BUSI 151. Introduction to Business** 3 credits
This course provides an overview of the major business disciplines. Topics include the business environment, forms of business ownership, entrepreneurship, management and leadership, finance, human resource management, production, entrepreneurship, marketing, global markets, accounting, economics, business ethics, and personal finance.

**BUSI 152. Business Careers** 3 credits
This course will allow students to gain knowledge of real-world experiences and working conditions from speakers and mentors who are top executives from local, regional, and national organizations. This course will be a bridge that relates theory to practice in different areas of business administration and leadership.

**BUSI 201. Principles of Microeconomics** 3 credits
This course presents the fundamental principles of the microeconomic theory as applied to consumers, producers, and government. This includes how market demand and supply operate to determine price and output in various competitive and non-competitive conditions. Related topics include elasticity, consumer choice, production and costs, economic functions of government, externalities, and public goods. (offered in fall and spring; offered online in spring)

**BUSI 202. Principles of Macroeconomics** 3 credits
This course is a study of macroeconomic principles as they relate to national economic goals. Topics include international trade, national income accounting, economic growth, inflation, employment, macroeconomic models of aggregate demand and supply, federal budget deficits, public debt, and an analysis of fiscal and monetary policy. (offered in fall and spring; offered online in spring)
BUSI 215. Information Systems  3 credits
The course focuses on business productivity software applications including word processing, spreadsheets, electronic presentations, and databases designed to prepare students to pursue Microsoft Office Specialist certification. Students will study the visual representation of information and will be introduced to various tools to aid in creatively expressing ideas. (offered in fall and spring; offered online in fall and spring)

BUSI 231. Business Law I  3 credits
History of the American legal system; introduction to the courts, dispute reconciliation, and functions of law; Constitutional law; criminal law; tort law and products liability; warranty law; contract law, offer and acceptance, consideration, contractual capacity, legality of object, public policy, third-party rights and remedies; and agency law. (offered in fall and spring; offered online in fall)

BUSI 232. Business Law II  3 credits
Forms of business organizations, partnerships, limited liability companies and corporate governance; employment law, worker protection, immigration law, labor law, sexual harassment, employment discrimination and retaliation, and human resources; real and personal property; bailments; landlord-tenant relations; insurance law; UCC Article 3 – commercial paper and negotiable instruments, holder in due course and liability and discharge; UCC Article 9 - secured transactions; and bankruptcy.

BUSI 241. Business Communication  3 credits
Business writing, forms and reports, with emphasis on different types of business letters and principles of correspondence. Prerequisite: COMM 102. (offered in fall and spring; offered online in fall and spring)

BUSI 316. Quantitative Methods for Business and Economics  3 credits
The course is designed as an introduction to the theory and application of quantitative techniques in the fields of business and economics. The major areas of emphasis will be probability and statistical theory, decision-making models, statistical process control, and data description in respect to graphic presentation and calculation of measures of central tendency and dispersion. Prerequisite: MATH 121. (offered in fall and spring; online in fall)

BUSI 317. Business Statistics  3 credits
This course introduces the student to the foundations of statistical analysis of data. The primary areas of emphasis are: sampling theory, summation of data (central tendency, variance, skewness), natural distribution of data (normal, binomial, Poisson), and statistical inferences from data (confidence intervals, hypothesis testing). The course will also examine relationships among paired data (regression, correlation) and non-parametric statistical measures. Prerequisite: MATH 121 and BUSI 316 or consent of instructor. (offered in fall and spring; offered online in fall)

BUSI 350. Special Topics  1-3 credits
May be repeated a maximum of two semesters. Advanced study of topics not covered in regularly scheduled course. Delivered through directed study or specially scheduled lectures, depending on the topic. Prerequisite: Consent of instructor.

BUSI 360. Business Ethics 3 credits
Illustration and discussion of the problems and practices of contemporary management through application of ethical concepts and guidelines utilizing case studies and assignments. The course aids in student recognition of ethical behavior and in distinguishing deviant behaviors; providing the foundation for making ethical decisions in business, government, and society. MGMT 311. (offered in fall and spring; offered online in spring).
BUSI 370. Issues in Capitalism  3 credits
Issues in Capitalism is a course designed to introduce the student to the philosophy of objectivism and the contrasting philosophy of subjectivism and will include, but will not be limited to, the study of capitalism, socialism and communism. Discussions and reading and writing about conflicting ideas will be emphasized throughout the course. The course will also encompass major economic and social issues within the political framework, both national and international.

BUSI 407. Global Dimensions of Business  3 credits
Exploration of the various factors influencing the global business environment. Pitfalls to be avoided and suggestions for effective management of international and multinational enterprises will be discussed. Prerequisites: ACCT 201, MRKT 321 and FINA 312. (offered in fall and spring; offered online in spring)

BUSI 450. Business Strategy  3 credits
A senior course focusing on the integration of the various areas of business functions. Emphasis will be placed on decision-making, corporate policy and strategy formulation and implementation, and the relationship between the corporate and socioeconomic setting. Prerequisite: Senior status, MGMT 311, MRKT 321, FINA 312. (offered in fall and spring; offered online in spring)

BUSI 498. Business Internship  1-6 credits
This course allows students an opportunity to apply the knowledge they have developed in various business courses to a real-world business setting. Prerequisites: BUSI 215, BUSI 241, and 90 credit hours or approval of advisor.

CRISIS AND EMERGENCY LEADERSHIP (CEL)

CEL 150: Introduction to Homeland Security & Unified Command  3 credits
This course seeks to provide the student with a heightened understanding of the concepts and structure of this complex organization; including tasks of boarder security, transportation security, intelligence and counter intelligence operations, as well as a historical prospective. Further, this course will focus upon unified incident command (ICS/NIMS), event preparedness and an overview of terrorist threats/occurrences. Through both a reflective and analytical interactive learning model, students will explore and research concepts within the Homeland Security doctrine. (Note: Students will obtain a certification in FEMA IS-700.A: National Incident Management System (NIMS) An Introduction; FEMA - IS-100.B: Introduction to Incident Command System)

CEL 220: Introduction to CBRNE/HazMat Response & Scene Leadership  3 credits
This course introduces the foundations and hazards of Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) scene leadership. Through both individual and team skill building exercises, students will explore the concepts of:
- Roles of various responding agencies and unified command.
- Hazmat Identification Systems
- Risks of Hazmat Exposures
- Identify Terrorist targets with respect to Hazmat vulnerabilities
- Define planning and preparedness needs levels within an organization.
Recognition of complex CBRNE and HazMat hazards and scene management challenges, students will be required to participate in a (communication skills building) “table top exercise” and formulate a written mock leadership response plan. (Note: Students will obtain a certification in FEMA - IS-5. A: An Introduction to Hazardous Materials)
CEL 240: Critical Incident Leadership  
This course focuses on critical incident response, identification, pre-planning, communication, stress management and organizational skills to improve performance related to critical incident leadership. Through analysis of past critical incidents, and team collaboration, students will develop “best practice” ideology in formulating leadership decisions. Course activities culminate in a collaborative “table top” exercise and an interactive team presentation of the “lessons learned” in analysis of leadership organization and decision making. *(Note: Students will obtain a certification in FEMA - IS-775: EOC Management and Operations and IS-405: Overview of Mass Care/Emergency Assistance)*

CEL 260: Managing Terrorist Incidents  
This course focuses on developing an understanding of the history, ideology and complexities of terrorism from a leadership perspective. Further, students will review, analyze and discuss case studies of terrorist events to determine core needs for emergency preparedness, communication, organization and planning. A “team skills” centered exercise utilizing a dynamic leadership challenge will synthesize skills needed to manage terrorist incidents.

CEL 152: Introduction to Government Financial Operations, Budgeting & Accounting  
A survey of financial operations, budgeting, business principles, and practices with a government (public sector) accounting procedures emphasis. This course pairs with the National Incident Management System (NIMS) doctrine of finance, logistics and operations with respect to resource management and tracking from a budgeting perspective. Students will also explore non-government (private sector) financial systems, principles and practices for application across agency boundaries. Students will integrate lessons learned and prepare a comprehensive resource management and budget presentation.

CHEMISTRY (CHEM)

CHEM 100. Introductory Chemistry  
CHEM 100 provides an introduction to the study of the physical and chemical behavior of matter. Topics include: measurements, atoms and elements, compounds and their bonds, chemical quantities and reactions, gases, solutions, acids and bases, and nuclear radiation. Emphasis will be placed on the chemistry of everyday life. This course is also geared to those interested in pursuing a career in health professions such as nursing. The course consists of three one-hour lectures and one three-hour laboratory per week. Lab Fee: $50. Taught each spring.

CHEM 101. General Chemistry I  
An introduction to the quantitative study of the physical and chemical behavior of matter. Major topics include: matter and measurement, atoms, ions and molecules, chemical formulas, equations, and moles, reactions in aqueous solution, periodicity and atomic structure, ionic and covalent bonding, molecular structure, chemical energy, and gases and their behavior. Three 50-minute lectures plus one three-hour lab per week. Prerequisite: MATH 120, 121, 123 or 201, or ACT Math 21 or SAT Math 540 or CHEM-100. Laboratory fee $50. Taught each fall and summer.

CHEM 102. General Chemistry II  
A continuation of CHEM 101 with the major topics being liquids, solids, intermolecular forces, solutions, rates of chemical reactions, chemical equilibrium acids, bases, aqueous
equilibrium, electrochemistry and nuclear chemistry. These topics, in addition to the material covered in CHEM 101, will provide students with a very good chemistry background for graduate entrance exams such as the PCAT, MCAT, DAT, and GRE. Three 50-minutes lecture plus one three-hour laboratory per week. Prerequisite: CHEM 101 or AP score of 5. Laboratory Fee: $50. Taught each spring and summer.

**CHEM 201. Organic Chemistry I** 4 credits
A careful study of the principles of organic chemistry focusing on structure and fundamental chemical properties of the common types of organic compounds. Three lecture hours and three lab hours per week. Prerequisite: CHEM 102 or AP score of 5. Laboratory fee $50. Taught each fall.

**CHEM 202. Organic Chemistry II** 4 credits
A continuation of CHEM 201, which is a pre-requisite. The emphasis is placed on reaction mechanisms and synthetic methods. Three lecture hours and three lab hours per week. Prerequisite: CHEM 201. Laboratory fee $50. Taught each spring.

**CHEM 251. Quantitative Analysis** 4 credits
The course consists of the study of wet chemical quantitative analysis techniques of “real world” samples. Topics include measurements, gravimetric and combustion analyses, a deeper look at acids and bases, buffers, chemical equilibria, acid-base, compleximetric, and redox titrations, and electrochemical probes. Three 50-minute lecture hours plus one three-hour lab per week. If there is a conflict with the lab time and another course, an alternate lab time can be found to meet student availability. Prerequisite: CHEM 102. Laboratory fee: $50.00. Taught each fall.

**CHEM 322. Inorganic Chemistry** 3 credits
A systematic study of selected topics in inorganic chemistry including an introduction to material of a mathematical-theoretical nature. Three lecture hours per week. Prerequisites: CHEM 102. Taught spring semester.

**CHEM 325L. Laboratory Analysis Techniques** 2 credits
This laboratory seminar will provide students the opportunity to gain hands-on experience. Students will independently develop an analytical method using chemical instrumentation available in the Chemistry Program. The student will then present their research project at the University of Charleston’s Academic Showcase. One 90-minute seminar and one to two lab sessions per week. Lab time is flexible and scheduled to meet student availability. Pre-requisite: CHEM 251 or CHEM 362. Co-requisite: CHEM 362. Laboratory fee $50.

**CHEM 362. Instrumental Analysis** 4 credits
A study of the advantages and the limitations of the use of laboratory instrumentation for solving “real world” problems using chemical analysis. Included are UV-Vis spectrophotometry, FTIR spectrophotometry, atomic spectroscopy, gas chromatography, liquid chromatography, and mass spectrometric techniques. Real-world analysis issues of sampling, calibration, and quality assurance will be discussed. Two (2) 75-minute lectures plus one three-hour lab per week. If there is a conflict with the lab time and another course, an alternate lab time can be found to meet student availability. Prerequisite: CHEM 102. Laboratory fee: $50. Taught each spring.

**CHEM 410. Biochemistry** 4 credits
This course provides an overview of biochemistry which stresses the organic and physical chemical basis for biological reactions, beginning with amino acids and building an understanding of protein structure. The course content expands to cover enzyme
catalysis and kinetics, metabolism, carbohydrate and protein biosis and the structure and function of DNA and RNA. Four lecture hours per week. Prerequisite: CHEM 202. Taught fall semester.

**CHEM 411. Advanced Organic Chemistry**  
3 credits  
A review of the fundamental reactions of some of the main types of aliphatic, aromatic, alicyclic, and heterocyclic compounds and the solution of a variety of problems with emphasis on structural theory and reaction mechanisms. Three lecture hours per week. Prerequisite: CHEM 202. Taught spring semester.

**CHEM 414 The Chemist's Toolbox**  
1 credit  
This one-hour course provides a survey of topics that will benefit the ability of the graduate to carry out independent research and help them to gain other skills useful to the professional chemist. Patent literature, determination of uncertainty in experimental data and safe chemical handling will be covered in separate units. Prerequisite: CHEM 412 Physical Chemistry I. No lab fee.

**CHEM 420 Advanced Biochemistry**  
3 credits  
An in-depth study of biochemistry in the following topics: Biophysical and bioinorganic chemistry, ultrafast dynamics of proteins and heme proteins and their physiological consequences, special enzymes and enzymatic regulation, metabolism of special biomolecules and related medical applications, NO (nitric oxide) biochemistry, cytochromes-mediated electron transportation, and effect of free radicals on living systems. Three lecture hours per week. Prerequisite: CHEM 410. Taught in spring.

**CHEM 494. Proposal Writing in Chemistry**  
1 credit  
This course prepares a student to complete a research proposal in chemical science and is used to satisfy the program requirements in the chemistry major and the chemistry-biology dual major. Students should register for this course in the fall semester of their junior year. CHEM 494 must be completed before a student will be allowed to take CHEM 495. Students taking this course will consult with a faculty research advisor on the project prior to their proposals. This course, along with CHEM 495, 496, and 497, represents the capstone learning experience for the chemistry major and the chemistry-biology dual major. Prerequisite: CHEM 202 and CHEM 251. Taught fall semester.

**CHEM 495. Research in Chemical Science**  
3 credits  
The investigation of a topic in chemical science under the supervision of a chemistry faculty member. Used to satisfy the program research requirement of the chemistry major and the chemistry-biology dual major. Students must complete CHEM 495 before enrolling in CHEM 496. Registration for CHEM 495 requires the signature of the individual in charge of the CHEM 495 learning experience and cannot be completed online. This research experience allows the student to receive credit for conducting their research. Students taking this course will work with a faculty research advisor and will complete a formal research paper upon completion of the project. The completed research
papers will be published on the school’s web page. This course, along with CHEM 494, and 496 represents the capstone experience for the chemistry major and the chemistry-biology dual major. Co-requisite: CHEM 494. Taught fall semester.

CHEM 496. Seminar in Chemical Science 1 credit
The presentation of a seminar about a student’s chemical research experience. This course is taken during the spring semester of a student’s senior year. Students are required to demonstrate proficiency in communicating their research project orally to an audience, using electronic presentation software. This course, along with CHEM 494, 495, and 497, represents the capstone learning experience for the chemistry major and the chemistry-biology dual major. Students are not permitted to take CHEM 496 until they have passed CHEM 495. Taught spring semester.

COMMUNICATION (COMM)

COMM 101. Freshman Writing I 3 credits
Designed to allow students to demonstrate analytical thinking and writing.

COMM 102. Freshman Writing II 3 credits
Continuation of COMM 101, culminating in a research paper.

COMPUTER SCIENCE (COSC)

COSC 100X- Introduction to Applied Computer Science 3 credits
Designed as a communication intensive introduction to Computer Science; provides a comprehensive overview of the field of Computer Science in areas such as machine architecture, data storage, data manipulation, operating systems, algorithms, programming languages, data structures, database structures, computational complexity, and artificial intelligence; includes a brief introduction to programming. Students will demonstrate mastery of the course materials through both written and oral assignments appropriate to a Communication Intensive course. (communication intensive core course). Prerequisites: None.

COSC 101X Introduction to Scientific Programming 4 credits
An introductory programming course designed primarily for computational and data sciences majors and business analytics where students learn how to use Python programming principles to solve numerical and scientific problems. Co-requisite: MATH 121.

COSC 102X- Coding I 4 credits
An Introductory programming course, using C++ that covers algorithm development and basic programming techniques with applications in the sciences. Students learn the principles of computer programming and how to use programming to solve scientific problems. This course is a prerequisite for all core courses and electives in data and computer science programs because it is essential to every single course in both disciplines. Prerequisites: None

COSC 103- Coding II 4 credits
A continuation of COSC 102 where sound programming principles and techniques are emphasized using C++. Topics include: file IO, Arrays and their applications, abstract data types, classes, Inheritance and composition. Prerequisite: COSC 102.

COSC 203- Coding III 4 credits
An intermediate programming course using Java. Prerequisite: COSC 103

COSC 210- Software Engineering 3 credits
An introduction to requirements management and best practices in eliciting, documenting, and verifying requirements for programming systems. Topics include
writing effective use cases, constructing UML-compliant models (including class, state, and activity diagrams), specification of user interface and data layers, testing, and integration. Prerequisite: COSC 103.

**COSC 220 - Computer Organization and Assembly Language** 3 credits

**COSC 280 - Data Structures** 3 credits
Design and implementation of abstract data structures including stacks, queues, doubly-linked and circularly-linked lists, binary search trees, heaps, priority queues and graphs; algorithmic analysis and asymptotic notation; binary search, heapsort, merge sort, quicksort, and radix sort. Prerequisites: COSC 102 and MATH 225.

**COSC 310 – Organization of Programming Languages** 3 credits
Survey and comparison of a variety of computer languages and their use in particular domains. Topics include formal descriptions of syntax and semantics, control structures, data representation, design and implementation of imperative and functional languages. Programming projects in several languages. Prerequisite: COSC 280.

**COSC 315- Introduction to Database Systems** 3 credits
Data models, data description and data manipulation languages. Schemas, query processing, database system architecture. Integrity, concurrency, and security techniques. Implementation of data models in a real database. Prerequisite: COSC 280.

**COSC 345 - Computer Networks** 3 credits

**COSC 360- Website Development** 3 credits
Website development emphasizing presentation layer with client side and server side technologies. Topics covered include HTML, CSS, media, JavaScript, CGI server-side programming. Prerequisite: COSC 315.

**COSC 355- Mobile Computing** 3 credits
Study of the fundamental design concepts and software principles underlying mobile and pervasive computing, including mobile interface design, data management, mobile networks, location aware computing, and mobile security. Involves significant programming on modern mobile platforms. Prerequisite: COSC 280.

**COSC 440 – Co-op Experience** 12 credits
Students utilize their knowledge of coding and computer science skills in an applied setting by working directly for a company, government agency or non-profit organization. Prerequisite: Senior status or permission of the instructor.

**COSC 450- Capstone** 12 credits
Drawing upon their co-op experience, students develop and implement an applied research or development project by working directly with a company, government agency or non-profit organization. Prerequisite: COSC 440.
CRIMINAL JUSTICE (CRJS)

CRJS 101. Introduction to Criminal Justice 3 credits
Students learn the history, organization, and functions of various components of the criminal justice system. The focus is on the interrelationships among law enforcement agencies, prosecution, courts, correctional processes and institutions, probation, parole, juvenile justice, and other officials and their agencies.

CRJS 242. Introduction to Law Enforcement 3 credits
This course discusses the philosophical and historical background, constitutional limitations, objectives, and processes in the enforcement of the law. Students discuss and evaluate the nature and responsibilities of policing, including police accountability, civil liability, and multicultural issues.

CRJS 260. Terrorism and Homeland Security 3 credits
This course provides a definition, overview, and analysis of terrorism and examines the causes of terrorism, including religious, political, and social overtones. It also provides an overview of domestic and international terrorism, responding to terrorism, and efforts to prevent terrorism.

CRJS 331. Criminal Procedure 3 credits
This course studies the historical development and court interpretations of the Bill of Rights as each relates to the issues of arrest, search, and seizure. It includes legal theories and practices of the criminal justice system from arrest through release of the criminal offender.

CRJS 356. Criminal Law 3 credits
This course examines the history and development of criminal law, elements of a crime; parties to a crime; types of offenses; and scope, purpose, and definition of criminal offenses. Students also study general principles of substantive criminal law through analysis of judicial opinions and text.

CYBERSECURITY (CYBR)

CYBR 310. Cybersecurity Strategy 3 credits
This course is designed to provide an overview and understanding of established cybersecurity strategy as well as provide students with the opportunity to engage in strategic decision making in the context of cybersecurity. The course will assess current threats in varying contexts including conducting a threat or vulnerability assessment for a non-profit or government service organization, as well as evaluate current methodology and approaches to pave the way for the development and implementation of cybersecurity strategy at the organization or corporate level.

CYBR 320. Ethical Hacking & Countermeasures 3 credits
This course immerses the students into a hands-on environment where they will be shown how to conduct ethical hacking. They will be exposed to an entirely different way of achieving optimal information security posture in their organization; by hacking it! They will scan, test, hack and secure their own systems. (EC Council)

CYBR 320C. Ethical Hacking & Countermeasures 2 credits
This course is designed to help students preparing for the CEH Exam. Students will immerse into a hands-on environment where they will be shown how to conduct ethical hacking. They will be exposed to an entirely different way of achieving optimal information security posture in their organization; by hacking it! They will scan, test,
hack and secure their own systems. Students will not have to complete the assignments that the 3Hr Credit course offers. (EC Council)

**CYBR 320T. Ethical Hacking & Countermeasures**  
1 credit  
This course develops the academic competencies for the Certified Ethical Hacker (CEH) content to be achieved beyond certification only. Students who hold the CEH certificate will be awarded transfer equivalence of 3 course credits upon supplying their certificate from passing the certification, plus completion of this 1-hour credit course. (EC Council)

**CYBR 330. Certified Incident Handle**  
3 credits  
This course is designed to provide the fundamental skills to handle and respond to the computer security incidents in an information system. The course addresses various underlying principles and techniques for detecting and responding to current and emerging computer security threats. Students will learn how to handle various types of incidents, risk assessment methodologies, and various laws and policy related to incident handling. (EC Council)

**CYBR 330C. Certified Incident Handle**  
2 credits  
This course is designed to help students preparing for the CIH Exam by providing the fundamental skills to handle and respond to the computer security incidents in an information system. The course addresses various underlying principles and techniques for detecting and responding to current and emerging computer security threats. Students will learn how to handle various types of incidents, risk assessment methodologies, and various laws and policy related to incident handling. Students will not have to complete the assignments that the 3 credit hour course offers. (EC Council)

**CYBR 330T. Certified Incident Handler**  
1 credit  
This course develops the academic competencies for the Certified Incident Hacker (CIH) content to be achieved beyond certification only. Students who hold the CIH certificate will be awarded transfer equivalence of 3 course credits upon supplying their certificate from passing the certification, plus completion of this 1 credit hour course. (EC Council)

**CYBR 340. Certified Security Analyst**  
3 credits  
This course will prepare students to master a documented penetration testing methodology that is repeatable and that can be used in a penetration testing engagement, globally. Additionally, students will gain the practice to explain highly technical findings in an elaborate penetration testing engagement in the form of a report or other writings. (EC Council)

**CYBR 340C. Certified Security Analyst**  
2 credits  
This course is designed to help students preparing for the CSA Exam to master a documented penetration testing methodology that is repeatable and that can be used in a penetration testing engagement, globally. Additionally, students will gain the practice to explain highly technical findings in an elaborate penetration testing engagement in the form of a report or other writings. (EC Council)

**CYBR 320T. Certified Security Analyst**  
1 credit  
This course develops the academic competencies for the Certified Ethical Hacker (CSA) content to be achieved beyond certification only. Students who hold the CSA certificate will be awarded transfer equivalence of 3 course credits upon supplying their certificate from passing the certification, plus completion of this 1 credit hour course. (EC Council)
CYBR 410. Systems Security Certified Professional – Phase I  
This is Phase I of a 2-part course. This course will prepare students as future leaders in the cybersecurity profession by addressing issues that promote the students' ability to design, engineer, implement, and manage an overall information security program to protect organizations from growing sophisticated attacks. (ISC2). 3 cr. [Note: this course provides the foundational level assessment for program outcomes #2 and #5.]

CYBR 415 Information Systems Security Professional – Phase II  
This is Phase II of a 2-part course designed to prepare students as future leaders in the cybersecurity profession. Building on CYBR 410, this course continues to emphasize issues promoting students' ability to design, engineer, implement, and manage an overall information security program. (ISC2). 3 cr. [Note: this course provides the foundational level assessment for program outcomes #2 and #5.] Prerequisite: CYBR 410.

CYBR 440. Advanced Security Trends  
The goal of this course is to develop critical thinkers who focus on selected research on security topics and trends for solutions to real world security related problems. The course is structured as a research seminar where students research a weekly topic and develop/present research papers. Topics may include government security trends, for profit and nonprofit trends, international security trends, attacks, encryption, protection of private information, covert channels and other current selected topics based on current events in security.

CYBR 450. Cybersecurity Capstone  
This course is a culminating, project-based experience that requires integration of previous knowledge and the implementation of learned techniques. Students will individually select, research, and implement a rigorous service-based cybersecurity project demonstrating program outcomes at the advanced level.

DATA SCIENCE (DASC)

DASC 101 Introduction to Data Science  
A course that covers the basic principles of data science and the tools and skills that are essential in data science. Topics to be covered include: data acquisition, cleaning, processing, and drawing inference from such data. Prerequisite: a grade of C or better in COSC 101.

DASC 200 Introduction to Data Mining  
Students learn basic principles of data mining which include methods for locating, extracting, processing, determining appropriate methods for handling and ultimately extracting useful knowledge from raw data. Topics to be covered include: data extraction, cleaning, and other preprocessing tasks of data, classifications, clustering, transformation, pattern recognition, anomaly detection, and overall knowledge discovery. Prerequisites: a grade of C or better in DASC 101 and STAT 120.

DASC 250 Introduction to Data Visualization  
The study of the basic principles of presenting (visual format) data in multiple ways from any source with applications in multiple disciplines. Prerequisites: a grade of C or better in DASC 101 and COSC 101.

DASC 310 Introduction to Machine Learning  
Provides an introduction to the principles and techniques of statistical learning (machine learning) for dimensionality reduction, classification, clustering, and regression. Students
learn how machine learns which can be divided into supervised and unsupervised learning. Such learning is accomplished through advanced statistical methodology. Prerequisites: a grade of C or better in DASC 101 and STAT 120.

**DASC 330 Modelling and Simulation** 3 credits
Statistical models for data analysis and discovery in big-data settings, with primary focus on linear regression models. The challenges of building meaningful models from vast data are explored, and emphasis is placed on model building and the use of numerical and graphical diagnostics for assessing model fit. Interpretation and communication of the results of analyses is emphasized. Prerequisites: a grade of C or better in DASC 101 and STAT 120.

**DASC 375 Introduction to Natural Language Processing** 3 credits
The course introduces students to the types of skills and knowledge needed to use computer software/algorithms to process and extract knowledge from large data sets. Topics to be covered include: syntax and parsing, statistical parsing, syntactic analysis. Prerequisites: a grade of C or better in COSC 101 and STAT 120.

**DASC 450 Internship** 3 credits
Content vary based on student’s background and needs. Prerequisites: junior or senior standing.

**DASC 475 Data Science Capstone** 3 credits
An independent research project done at the junior or senior level. It involves a project supervised by a faculty. The number of hours depends on student interest, standing, and background. Prerequisites: senior standing.

**DIGITAL MEDIA DESIGN (DMDS)**

**DMDS 101 Introduction to Digital Media Design** 3 credits
The course will provide students an understanding of technology and theory that have expanded digital media’s footprint. Students will be introduced to a variety of digital media technology and examine trends in social media, web and traditional print design.

**DMDS 200 Digital Media and Graphics** 3 credits
The course will introduce the principles and elements of digital media design utilizing Adobe Suites. Students will focus on development of concepts and ideas relating to digital and social media.

**DMDS 210 3D Design and Product Development** 3 credits
The course will introduce computer software specifically for 3D design to enhance student’s knowledge of digital media. Students will focus on the development of 3D products for prototyping using 3D printing technology.

**DMDS 201 Image Manipulation and Web Aesthetics** 3 credits
Students will focus on the development of Web design and aesthetics while building his or her knowledge of the principles and elements of digital media design utilizing Adobe Suites. Prerequisites: DMDS 200

**DMDS 302 Animation, Motion, and Editing** 3 credits
The course will focus on animation and motion graphics. It will provide the students techniques and skills used in developing animation and editing in video and apps using Adobe After Effects.
DMDS 311 (3HR) Web and Social Media Design 3 credits
The course will focus on web and social media design. It will provide the students techniques and skills used in developing web and social media design using Adobe DreamWeaver and Spark. Students will focus on layout and composition.

DMDS 301 (3HR) Ideas and Visualization Studio 3 credits
The studio will focus on the develop of visual skills for print media, packaging, and data. Students will work in teams to produce media products for UC, the local community, or non-profit organizations. Prerequisites: DMDS 200 and DMDS 201

DMDS 310 (3HR) Social Media and Product Development Studio 3 credits
The studio will focus on the creation of Social Media design and product development. Students will work in teams to produce a tangible product that can be used at UC, the local community, or non-profit organizations. Prerequisites: DMDS 200 and DMDS 210 or consent of instructor.

DMDS 320 User Interface and Web Development Studio 3 credits
The studio will focus on the design and development of user interface for the web and apps. Students will work in teams to produce a tangible product that can be used at UC, the local community, or non-profit organizations. Prerequisites: DMDS 200, DMDS 201, DMDS 302, COSC 360, or consent of instructor.

DMDS 410 (3HR) Digital Media Design Senior Capstone 3 credits
The course will focus on individually developed projects for appropriate audiences. Students will focus on the Business Plan Competition and the development of a completed portfolio. Students will work with a team of mentors to help advance his or her skills. Prerequisites: DMDS 303, DMDS 304, DMDS 305 or consent of instructor.

DMDS 490 (3HR to 6HR) Digital Media Design Internship 3-6 credit hours
The course will provide students the opportunity to obtain practical work experience. Students will focus on developing his or her skills as it relates to digital media and specified interests. Prerequisites: DMDS 410

DMDS 499 Independent Study 3 credits

**EDUCATION (EDUC)**

EDUC 100. Introduction to Education 3 credits
This course is an introduction to the education profession and is designed to familiarize prospective educators with the work of the K-12 teacher and community educator. The content of the course provides students with a comprehensive examination of three main factors that affect the work of an educator: (1) students and the social issues they bring with them to schools, (2) curriculum and instruction, and (3) organizational structures, governance and school law. Candidates will explore their own interests in the field of education by relating it to their personal educational experiences. Public school field experiences (20 hours) introduce students to a range of educational levels, a variety of multi-cultural and socio-economic settings, and diverse student populations. This course is offered every fall.

EDUC 203. Survey of Students with Exceptionalities 3 credits
This blended online course provides an overview of historical perspectives and current practices in special education. Units of study include definitions, characteristics, prevalence, assessment, and placement issues for specific disabilities and giftedness. The course also emphasizes multicultural, age, and familial considerations for students with
exceptionalities. Strategies for improving the learning and behavior of students with exceptionalities are introduced. Candidates spend 20 hours in a special education setting.

**EDUC 204. The Inclusive Classroom** 3 credits

This blended online course emphasizes procedures and strategies for including students with exceptionalities and culturally diverse learners in the general education classroom and other learning settings. Candidates are introduced to the concepts of universal design for learning, understanding by design, and culturally responsive teaching. Candidates also create lesson plans that include all learners. The course emphasizes collaborating effectively with professionals and family members to meet individualized education plan goals and objectives in the general classroom. As a service-learning intensive course, students spend 20 hours in public school and/or community inclusive settings.

**EDUC 250. Technology in the Schools** 3 credits

Candidates learn computer and other technology applications for the field of education. The course emphasizes integrating iPads, multimedia, and the internet to improve teaching and learning, providing assistive and adaptive technology for the inclusion of students with exceptionalities and culturally diverse learners, and making ethical decisions for technology usage. This class is taught in an online format only.

**EDUC 253. Physical Education Methods**

This course focuses on preschool and elementary instructional strategies that emphasize developmentally appropriate skills, physical activity and motor skill development, management skills and self-discipline, lifetime personal health and wellness, cooperation, responsibility, and sensitivity to diversity. In addition, the course emphasizes how the classroom teacher can introduce physical movement in the classroom to energize thinking and enhance academic skills. Students will teach and work with students in a 10-hour field experience in an elementary school setting and create lesson and/or skills plans related to physical movement and/or wellness as part of the teaching experience.

**EDUC 299. Theories of Learning and Teaching** 3 credits

This course is an examination of developmental, cognitive, motivational, social, psychological, and constructivist theories of learning. Units of study adapt the principles of educational psychology to the learning-teaching concepts related to understand students and effective instruction. Pre-requisite: PSYC 212. This course is offered every spring. Students typically apply for formal acceptance into Education while enrolled in this course.

*Only students who have been formally accepted into the Education Department or who have special permission from the Chair of the Education Department may enroll in the courses listed below.*

**EDUC 300. Children’s Literature** 3 credits

This online course focuses on exploring and evaluating a variety of authors, illustrators, and books related to children’s literature. Candidates will become familiar with different genres, evaluate and select appropriate literature to meet individual student needs, and recognize how children’s literature can be implemented across the curriculum. Candidates will develop and implement a variety K-6 learning events to engage and motivate students to become lifelong readers.

**EDUC 311. Assessment and Diagnosis** 3 credits

This course examines the design, production, application, and scoring of teacher-made and standardized tests with norm-referenced and criterion-referenced measurements. Attention is given to planning assessments for units, incorporating technology for assessment and scoring,
and developing authentic assessments and rubrics. The course includes fundamental descriptive statistics needed for interpreting tests scores of students with and without exceptionalities. Multicultural issues in assessment are emphasized.

EDUC 316. School Health A general overview of practices and issues related to school health programs including philosophy, organization, school health services, curriculum, instruction and evaluation. Candidates also teach and work with students during a 10-hour field experience in a health setting. Pre-requisite or Co-requisite: EDUC 320. Only students who have been formally accepted into the Education Department or who have special permission from the Chair of the Education Department may enroll in this course.

EDUC 320. Integrated Methods 3 credits
This course is a detailed analysis of instructional planning, teaching methodologies and classroom management as they apply to the learner, content, and context of classrooms. Emphasis is given to integrated planning, meeting the needs of diverse students, and the use of appropriate methods, materials and evaluation instruments. An extensive field experience in a public-school setting (20 hours of teaching and observation) is coordinated with the course. Pre-requisite or Co-requisite: EDUC 299.

EDUC 325. Reading in the Content Area 3 credits
This course is an exploration of how students comprehend and learn with text and how teachers can assist them in these processes. Topics covered include the meaning of comprehension, assessment of student reading skills, study skills, and specific teaching strategies for disciplines in middle and secondary schools. Candidates will be given the opportunity to explore, model and practice various strategies. A 20-hour public school field experience is required. Note: This course is required only for Secondary Special Education majors. Pre-requisite or Co-requisite: EDUC 320.

EDUC 330. Positive Behavioral Support 3 credits
Candidates discover how and why students experience issues with inappropriate behavior and identify behavioral needs through functional behavioral assessment. Candidates learn the significance of a supportive classroom environment that encourages positive behavior, enhances self-esteem, and provides clear, consistent behavioral expectations. The course provides instruction in problem solving, conflict resolution, social skills, and behavior modification. The course also highlights the importance of including family and others in planning behavioral interventions. During this course, candidates create an Eligibility/Evaluation of Services, Individualized Education Program, a Social Skills Unit, a Functional Behavior Assessment, and a Behavior Modification Portfolio. Candidates also spend 20 hours in a special education setting working with students who have behavioral disorders. Pre-requisites: EDUC 203 and EDUC 204. Offered fall of odd years in rotation with EDUC 340 and EDUC 360.

EDUC 340. Collaboration in the Schools 3 credits
Candidates learn strategies for encouraging collaboration among professionals, families, and students. The course provides instruction in active listening, problem solving, conflict resolution, cooperative learning, and understanding multicultural perspectives. Principled living and ethical decision-making are emphasized as foundational to effective collaboration. During this course, candidates create an Eligibility/Evaluation of Services, Individualized Education Program, Social Skills Plans, Assistive Technology Checklist, and Collaboration Plan. Candidates will have the opportunity to teach and assess students with high incidence disabilities during this 20-hour field experience. Knowledge of disability characteristics and inclusion strategies is assumed. Pre-requisites: EDUC 203 and 204. Offered spring of even years in rotation with EDUC 330 and EDUC 360.
EDUC 350. Special Topics  
3 credits  
The course is offered in response to departmental needs. The content may vary depending on the education topic selected.

EDUC 360. High Incidence Disabilities  
3 credits  
This course addresses the academic and behavioral needs of students with high incidence disabilities, including those with learning disabilities, attention-deficit/hyperactivity disorder, mild mental impairments, and behavioral disorders. Emphasis is placed on developing reading, oral and written language, and mathematical skills. During this course, candidates create an Eligibility/Evaluation of Services, Individualized Education Program, 504 Plan, Ideal Inclusive Environment Case Study, Assistive Technology Checklist, and Collaboration Plan as well as a Behavior Modification Plan and Social Skills Lesson Plan. Candidates will have the opportunity to teach and assess students with high incidence disabilities during this 20-hour field experience. Knowledge of disability characteristics and inclusion strategies is assumed. Pre-requisites: EDUC 203 and 204. Offered Fall of even years in rotation with EDUC 330 and EDUC 340.

EDUC 372. Fundamentals of Reading Instruction  
3 credits  
This course focuses on the physiological, psychological, educational, and sociological factors underlying the development of reading skills. In addition to an examination of curriculum, instructional strategies, methods, and materials used for teaching reading, the course provides a background of the Saxon phonics methodology. The course is taken concurrently with EDUC 374. Pre-requisite or Co-requisite: EDUC 320.

EDUC 374. Clinical Practice/Reading Diagnosis  
3 credits  
The course focuses on the identification of reading difficulties, diagnostic techniques, preventive and prescriptive methods and materials for reading instruction. This course is a supervised teaching field experience in a local elementary school which provides candidates with the opportunity to learn and demonstrate the understanding of diagnosis of reading skills, test administration, and interpretation and evaluative follow up. The course is taken concurrently with EDUC 372.

EDUC 378. Elementary Integrated Methods  
3 credits  
The course focuses on curriculum, instructional methods, assessment, and materials needed for effective instruction in language arts, social studies, and science. All learning experiences are connected to state and national standards and to Praxis content outcomes in each of the content areas. Teacher candidates will participate in both class sessions and on-site field experience learning. Candidates complete 20 hours or more of field experience during this course. Pre-requisite or Co-requisite: EDUC 320.

EDUC 422. Student Teaching in Special Education  
6-12 credits  
This full semester, full-time practicum is devoted to student teaching in an accredited school with an experienced (3 years of more), licensed K-12 teacher. Initial experiences include classroom observations with responsibilities for planning and teaching gradually added. This course is taken concurrently with EDUC 496 and may be taken concurrently with EDUC 497.

EDUC 496. Seminar for Student Teaching/Internship  
2 credits  
This seminar course is a senior capstone experience that includes weekly meetings. Its purpose is to guide student teacher/interns in fulfilling senior capstone assessment requirements, compiling student teaching/internship portfolios, and completing the West Virginia Teacher Performance Assessment. It is taken in conjunction with EDUC 422, 497 or 498. As a capstone experience, these combined courses provide a venue for creating and presenting professional projects that demonstrate student abilities to meet UC Department of Education outcomes while reflecting in a collaborative manner.
EDUC 497. Student Teaching in the Content Areas 6-12 credits
This full semester, full-time practicum is devoted to student teaching in an accredited school with an experienced (3 years or more), licensed K-12 teacher. Initial experiences include classroom observations with responsibilities for planning teaching gradually added. This course is taken concurrently with EDUC 496 and may be taken concurrently with EDUC 422.

EDUC 498. Internship in Educational Studies 12 credits
This full semester, full-time practicum taken in conjunction with EDUC 496 is devoted to an internship at a school, community, social or educational service agency or organization. Initial activities include observations with responsibilities for planning and teaching or training gradually integrated into the experience. Responsibility for service/skills plans, lesson plans, instruction, training, and/or workshops is gradually assumed until the candidate has complete responsibility of the professional’s role (according to the policies of the school, agency or company) full time for at least four weeks.

EDUC 499. Independent Study 1-6 credits
This course is an independent study of some aspect of professional education that is open only to Education majors who have completed 12 semester credits of professional education courses. Approval of the Chair of the Education Department is required.

ENGLISH (ENGL)

ENGL 202. British Literature Survey: Beowulf to 1798 3 credits
A survey of British literature beginning with Beowulf and ending at the end of the eighteenth century, focusing on major authors, trends and genres, including lyric poetry, sonnets, drama, epic, essay, and fiction. The course includes female authors. Addresses English Outcomes #2, 3a, 3e, 4.

ENGL 203. British Literature Survey: Romantics to 20th Century 3 credits
A survey of the major authors, trends, and genres of British literature of the nineteenth and twentieth century’s, including the Romantic Movement, the development of the novel, prose forms, and changes in poetic structures. The course includes female authors and some minority authors. Addresses English outcomes #2, 3a, 3e, 4.

ENGL 223. American Literature Survey I 3 credits
A survey of American Literature from the colonial period to the American Renaissance in the 19th Century, focusing on major trends and genres, including poetry, travel narratives, captivity narratives, and early fiction. The course includes female authors, African-American authors, and Native American authors. Addresses English outcomes #1, 3, and 4.

ENGL 224. American Literature Survey II 3 credits
A survey of American literature from the Civil War to the 21st Century, focusing on major trends and genres, including Realist and Naturalist novels, modern fiction, and experimental poetry. The course includes female authors, African-American authors, and Native American authors. Addresses English outcomes #1, 3, and 4.

ENGL 230. Western World Literature 3 credits
A survey of the major works of the Western literary tradition, including literature from Greece, Rome, Latin America, and Continental Europe from ancient times to the present. The course focuses on the development of poetry, drama, epic, essay, and short fiction. Addresses English outcomes #1,2, 3c, 3e.
ENGL 231. Non-Western World Literature 3 credits
A survey of the major literary traditions of several non-western cultures, including Africa, Asia, India, and the Middle East from ancient times to the present. The course focuses on the development of poetry, the novel, drama, epic, essay, and short fiction. Addresses English outcomes #1, 2, 3d, 3e.

ENGL 241. Business Writing 3 credits
Business writing, forms and reports, with emphasis on different types of business letters and principles of correspondence. Prerequisite: COMM 102. (See BUS 241).

ENGL 302. Literary Criticism 3 credits
Critical approaches to analyzing and writing about literary and nonliterary texts and non-print media in their historical/cultural contexts. Students will learn the major concepts and terms of literary criticism and theory and learn to analyze a wide variety of texts, including literary works (poetry, drama, novels), nonliterary texts, film, advertisement, and prints. Addresses English outcomes #1, 2, 3a, 3b, 3e, 3f, 4.

ENGL 307. Appalachian Literature 3 credits
A concentrated study of Appalachian literature from the 17th Century to 20th Century, including frontier literature, mountain poetry, and nature writing. The course includes Native American stories from Appalachia and female authors. Addresses English outcomes #1, 2, and 3.

ENGL 309. Poetry of War 3 credits
The course consists of a focused study of the way that war has been put into poetry throughout time and in multiple wars. The course includes a focused study of long books of poetry by Walt Whitman and Herman Melville, as well as shorter, individual poems by Chinese, American, and British writers.

ENGL 312. Shakespeare 3 credits
Provides the student with an overview of Shakespeare, his life, works, and theatre, with a particular look to the historical, literary and dramatic context. Students will examine specific plays in order to develop analytical skills applicable to Shakespearean drama. Addresses English outcomes #1,2, 3a, 4.

ENGL 315. Linguistics 3 credits
An introduction to the field of Linguistics with particular attention given to the history of the English language, an analysis of how language structures meaning in society, and the structure and grammar of English. Addresses English outcomes #1, 2, 4; and Writing Outcome #1.

ENGL 316. Multi-ethnic Literature 3 credits
An in-depth study of the fiction and poetry of minority writers of the United States and Britain, including Asian-American, Native-American, African-American, Hispanic, Caribbean, and gay and lesbian writers. Addresses English outcomes #1.2, 3b,3e,3f

ENGL 326. Literature and Gender 3 credits
Focuses on women writers or images of women in literature during a specific time period or according to a particular theme, style, or genre. The course may also address the issue of gender in an interdisciplinary format that allows students to understand how gender shapes our identity in larger social structures. Addresses English outcomes #1, 2, 3a, 3b, 3e, 3f, 4.

ENGL 330. Studies in Period 3 credits
Concentrates on a major period in British and/or American literature, such as the Medieval period, the Renaissance, the Eighteenth century, the Romantic period, the Nineteenth century, and the Twentieth century. Each course will focus on one or more of
the cultural, literary, and historical issues of a specific period. Addresses English outcomes #1, 2, 4.

ENGL 335. Drama 3 credits
A survey of dramatic writing in the context of its historical development, with special attention given to recurring themes, such as tragedy, styles, and characters. A variety of British, American, World, female, and minority authors will be covered. Addresses English outcomes #1, 2, 3a, 3b, 3c, 3d.

ENGL 336. Literature and Film 3 credits
The course examines the way in which literature has been adapted to film and the ways in which audience, purpose, and language of the written text are adopted, changed, or reworked to reflect certain social, political, or economic contexts. Prerequisite: COMM 101, COMM 102.

ENGL 340. Creative Writing 3 credits
An introduction to the elements and form of creative fiction, including plot and character development, style, tone, and point of view. Addresses English outcome #2.

ENGL 345. Advanced Writing 3 credits
An advanced composition course in which students will develop and practice their writing skills using a variety of rhetorical modes, including narration, description, and exposition. Students will learn that by controlling the writing process itself, they can shape their ideas and participate in various cultural conversations. Students will learn how notions of literacy are evolving in our technological age, and how they can adapt to meet these challenges by learning to write for the electronic environment. Addresses English outcomes #1, 2, 4. Addresses Language Arts outcomes #1 and Writing Outcomes #1, 2.

ENGL 346. Workshop in Writing and Rhetoric 3 credits
Presents a survey of composition theory. Helps students to enhance their writing abilities while preparing them to serve as resource consultants in the University’s Communication Resource Center (CRC) and other community venues. Students are required to tutor 30 hours a semester in the CRC. Prerequisite: ENGL 345

ENGL 350. Special Topics 3 credits
An in-depth study of a literary movement, writer, theme, or genre of current or special interest.

ENGL 355. Internet Communication 3 credits
Focuses on various rhetorical strategies for writing in online environments, including web-page design, storyboarding, and digital narratives for various audiences. Addresses English outcomes #1, 2. Addresses Writing Track outcomes #1, 2.

ENGL 360. Harry Potter 3 credits
In this course, we will examine and analyze several themes in all seven novels, including coming of age, ethical issues, imagination and personal freedom, the nature of evil in literature, aspects of race, class, and gender, and the cultural impact of the series.

ENGL 361. The Eagle 3 credits
This course is a practicum course that is centered on students creating the school newspaper, 'The Eagle.' This one-credit course emphasizes independent work and creativity towards creating this newspaper. Students work on writing articles and the art of editing while also learning the expectations of journalistic writing.

ENGL 405. Senior Capstone in English 3 credits
The Senior Capstone course is a directed study with the student’s English advisor. The Capstone is designed to be a flexible experience that can include a research project,
portfolio, or creative project. The evaluation of the Capstone experience includes the student’s English advisor and at least one other English faculty member. The student must create a proposal of the project subject to approval by the advisor. The Capstone must be completed at the end of the student’s next-to-last semester. Any revisions to the project must be completed at least one month before the end of the student’s last semester.

**ENGL 499. Independent Study**  
3 credits  
An in-depth study of a period, author, or topic. Open only to English majors who have completed 12 credits of 300-level or above courses in English. Requires approval of advisor, program coordinator, and department head. Cannot be used as a substitute for required English courses.

**ENGLISH AS A SECOND LANGUAGE (ENSL)**

**ENSL 096. Advanced English**  
4 credits  
In this course, students practice listening, speaking, reading, and writing to become more fluent in spoken English. The course addresses improvement in oral skills needed for class discussions and presentations and aims to give students practice in writing clear and effective college-level English. Students also develop academic vocabulary and lecture note-taking skills. Students will be placed in this course based upon results from an English Placement Test, and a written essay. *This course is limited to students whose first language is not English.*

**ENTREPRENEURSHIP (ENTR)**

**ENTR 201 Introduction to Innovation, Entrepreneurship & New Venture Creation**  
3 credits  
This course introduces concepts, methods, and strategies involved in starting a successful business that is based upon new technology, products, and services. The course will introduce design thinking and creative problem-solving techniques and will assist in identifying new opportunities for existing markets, understanding how investors look at technology companies, managing intellectual property, financial and legal issues, commercializing real technologies, and preparing a business model to guide the new enterprise.

**ENTR 2XX Social Entrepreneurship**  
3 credits  
This course is interdisciplinary in nature and will explore emerging models of business concerned not only with profit, but with the triple bottom line (people, profit, and the environment). Many emerging occupations and markets transcend the traditional categories of corporate, education, government, and nonprofit enterprise and this will be discussed in the social entrepreneurship context. Issues of social importance will be discussed, and models of social entrepreneurship practice will be evaluated. Students will read articles, evaluate guest speakers and case studies, as well as present a social entrepreneurship proposal of their own.

**ENTR 205X Introduction to 3D Design & Printing**  
3 credits  
This course is an introduction to concept, process, and terminology necessary to create 3D images for the purposes of prototyping using 3D printing

**ENTR 233X Introduction to Intellectual Property**  
1 credit  
An introduction into the laws and regulations regarding intellectual property, specifically patents, copyrights, trademarks, and logo design. Topics will include identifying intellectual property, types of intellectual property, and how to protect your intellectual property.
ENTR 301 Marketing for Startups  3 credits
This course will serve to provide a foundation for marketing and social media basics for startups and build a portfolio with a hands-on experience with a local startup. The course will culminate in a marketing portfolio that can serve as a framework for competitors in the West Virginia Statewide Collegiate Business Plan competition. The course provides an introduction to customer segment research, using customer segments to create marketing strategies, applying the strategies to social media and ecommerce venues.

ENTR 318X Financial Analysis for Startups  3 credits
This course will look at the startup and early stage company from a financial perspective. The student will develop financial pro forma based on needs and requirements of a startup. Financial planning for a startup requires careful consideration of many factors within and outside the owner’s control. Proficiency with Microsoft Excel as a tool for financial modeling will be developed throughout this course.

ENTR 350 Special Topics  1 credit modules – Students choose 3 modules
Presents coverage of special interest topics in entrepreneurship such as social entrepreneurship and nonprofits, sustainability, family business management, crowd funding, digital media marketing, and tax law for entrepreneurs.

ENTR 401X Entrepreneurship practicum  3 credits
This course allows students an opportunity to apply the knowledge they have developed in various courses to a real-world entrepreneurship setting. Prerequisites: ENTR 318, ENTR 233, ENTR 301 or permission of instructor.

EXERCISE SCIENCE (EXER)

EXER 113. Structural Kinesiology  3 credits
An introductory course on the structures of the body, including planes of movement, anatomical terms and directions, bony landmarks, and muscle identification.

EXER 201. Training Concepts  3 credits
This, theory-based foundational course, focuses on the development and implementation of strength training concepts, activities, and beginning foundational program planning for different segments of the physically active population.

EXER 212. Practicum I  3 credits
A clinical/practicum course designed for students in their sophomore year of Movement Science. This supervised practical experience will provide students the opportunity to gain supervised experience in the field of Movement Science while working with an active population.

EXER 252. Foundations of Injury Management  3 credits
This course provides an introduction to the identification, prevention, assessment, and management techniques of sports-related injuries and illnesses for sports medicine professionals. Students receive OSHA training in the handling of blood borne pathogens, advanced first aid, CPR and AED instruction, and professional responsibilities of the healthcare personnel.

EXER 275. Program Design & Implementation  3 credits
This is a scientific and applied course focusing on strength training activates and design concepts for different segments of the population. the course focuses on the understanding and measurement of human performance through the development of aerobic and anaerobic program delivery, including sport periodization, plyometric training, flexibility and speed-endurance development.
EXER 325. Exercise Prescription 3 credits
A "hands-on" approach that applies basic exercise testing principles of cardiovascular fitness, muscular strength and endurance, flexibility, nutrition, and body composition to specific populations. Screening and testing devices, physical activity, disease, aging and psychological health will be studied. Implications of basic exercise testing principles will be investigated within a diverse population.

EXER 330. Special Populations 3 credits
This course is designed to help the student examine and apply the principles of exercise prescription for neurotypical and special population individuals. Development of exercise strategies for the apparently healthy; elderly, obese, hypertensive, and cardiac patient will be discussed. In addition, exercise considerations for diabetes, asthma, arthritis, osteoporosis, behavioral disabilities and intellectual disabilities will be explored.

EXER 333. Pharmacology & Psychosocial Issues in Athletic Training 3 credits
This course is designed to educate students on the pharmacokinetics and pharmacodynamics of medications used in the physically active individual and the psychological response to injury and interventions for the physically active individual, including substance abuse, mental health, and catastrophic injuries.

EXER 355. Motion Analysis in Athletics and Healthcare 3 credits
This course will allow the student to study joint structure and motion as it relates to movement, strength training/conditioning, prevention and rehabilitation of injuries. The students will apply basic concepts to scenarios in the Sports Medicine/Athletic Training field. Students are eligible to sit for the Performance Enhancement Specialist (PES) exam through the National Academy of Sports Medicine (NASM) upon successful completion of the course. Prerequisites: BIOL 171/71L and 172/172L or BIOL 301/301L and 302/302L Pre or co-requisite: ATEP 370/BIOL 370/HSCI 370.

EXER 370. Physiology of Exercise 3 credits
This course will provide the student with a base of knowledge on the physiological effects of exercise on the human body and its application across a variety of activities and disciplines. Prerequisites: BIOL 171/71L and 172/172L or BIOL 301/301L and 302/302L

EXER 452. Organization & Administration in Sports Medicine 3 credits
This course is designed for students related to the administration and organizational responsibilities in Athletic Training and healthcare. Topics and experiences include management theories, human resource management, financial resources management, facilities design/planning, information management, healthcare reimbursement, legal considerations, ethical practice, cultural competency, public relations, and professional development.

EXER 475. Exercise Science Capstone 3 credits
A capstone course for Exercise Science majors that focuses on the application and demonstration of skills needed to plan, implement, and evaluate strength training and conditioning in a variety of settings.

EXER 497. Exercise Science Internship 3 credits
In EXER 497 students acquire professional experience in their chosen field. Internship arrangements between the student and instructor must be solidified prior to enrolling in this course.
EXER 498. Exercise Science Internship 12 credits
In EXER 498 students acquire professional experience in their chosen field. Internship arrangements between the student and instructor must be solidified prior to enrolling in this course.

FINANCE (FINA)

FINA 201. Financial Literacy 3 credits
Introductory course in financial literacy including goal setting, cash management, the time value of money, taxes, credit, housing, investment alternatives, retirement planning, and insurance planning. This course is ideal for individuals seeking to prepare for financial decisions they will face throughout life.

FINA 205. Fundamentals of Financial Planning 3 credits
This course is designed to introduce the student to the foundations of financial planning. The student will gain a basic understanding of the financial planning profession. This course will focus on time value of money calculations, personal financial statement analysis, cash and debt management, housing and mortgage options and education funding. This is one of the seven required courses in the Concentration in Financial Planning that prepares students desiring to take the CFP® certification examination. Prerequisites: Math 121 and ACCT 201 or consent of instructor (offered spring)

FINA 305 Risk Management & Insurance 3 credits
This course is a study of the various types of insurance products and services. The student will study and analyze life, health, and disability insurance options and how they are a vital component of an overall personal financial plan. This is one of seven required courses in the Concentration in Financial Planning that prepares students desiring to take the CFP® Certification examination. (offered fall of odd-numbered years)

FINA 312. Business Finance 3 credits
A study of the theory and practices of financial management in the modern business firm. Special emphasis is placed on the application of time-value-of-money, valuation of securities, analysis of financial statements, weighted average cost of capital calculations and investment/budgeting decisions. Prerequisites: ACCT 202 and BUSI 201.

FINA 313. Advanced Business Finance 3 credits
A problem-based course covering a broad spectrum of corporate financial management decisions. Emphasis is given to case study involving capital acquisition and structure. Strategic issues such as corporate reorganizations, mergers and acquisitions are explored in cases and “real world” research. Prerequisite: FINA 312.

FINA 350. Special Topics 3 credits
The course will include topics devoted to the study of Finance.

FINA 361. Money and Banking 3 credits
A study of the major concepts of money, credit, and financial institutions. Consideration is given to the structure of global financial markets, the determination of interest rates and the allocation of capital. Emphasis will be placed on understanding the role of the Federal Reserve System in interest rate strategy and monetary policy. Students will increase their understanding of several categories of financial institutions including commercial banks, thrifts, mutual funds, securities firms, investment banks, insurance companies and pension administrators. Prerequisite: BUSI 202.
FINA 405. Investments 3 credits
This course is a theory and problem-based study of investment methodology, investment risks, and security selection. The curriculum includes an introduction to security analysis & valuation and portfolio management. The course culminates with an applied study of security behavior and simulated securities trading. This is one of seven required courses in the Concentration in Financial Planning that prepares students desiring to take the CFP ® Certification examination. Prerequisites: FINA 312 or consent of instructor (offered spring of even-numbered years)

FINA 410. Retirement Planning 3 credits
This course is designed for the student interested in acquiring knowledge of retirement planning and the various types of retirement plans typically available as part of a company sponsored employee benefit plan. Real world case studies are an integral and ongoing component of the course. (offered spring of even-numbered years)

FINA 414. Security and Portfolio Analysis 3 credits
An advanced study of asset pricing theories, valuation models and security analysis. Topical coverage will include stocks, bonds, and derivative securities from a portfolio manager’s perspective. The course includes a “mock” Certification examination. Prerequisites: FINA 205, FINA 305, FINA 405, ACCT 423, FINA 410, FINA 415 (offered spring of odd-numbered years)

FINA 415X. Estate Planning 3 credits
This course is designed for the student pursuing a career in financial services, taxation, or law in which estate planning and estate and gift taxation is but one of several areas of practice. This is one of seven required courses in the Concentration in Financial Planning that prepares students desiring to take the CFP ® Certification examination. (offered fall of even-numbered years)

FINA 420X. Financial Planning Capstone 3 credits
This course is designed as the capstone course for students pursuing a concentration in Financial Planning. It is designed around ongoing case studies that combine the outcomes of the prior courses within the concentration. The student will produce in both written and oral forms fully developed financial plans. This is one of seven required courses in the Concentration in Financial Planning that prepares students desiring to take the CFP ® Certification examination. Prerequisites: FINA 205, FINA 305, FINA 405, ACCT 423, FINA 410, FINA 415 (offered spring of odd-numbered years)

FRONTLINE LEADERSHIP (FLDR)

FLDR 150: Leadership Journeys 3 credits
The leadership journey begins with developing awareness of who leaders are and what they know and do. Through biographical analysis, observations, and networking, the action and reflective learning approach in this course challenges one to develop self-awareness and a personal leadership model. The model must reflect the importance of context, adaptability, and social skills.

FLDR 220: Growing Leaders 3 credits
This course introduces the foundations for leadership development at the individual and team levels within an organization. The connection of an organization’s vision, mission, values and goals to one’s growth and advancement is explored. Recognition of strengths and weaknesses serve as the baseline for goal setting and creating a leadership development plan.
FLDR 240: Performance Improvement Initiatives 3 credits
This course focuses on the identification, planning and presentation of an initiative to improve performance related to a strategic intent. Tools introduced include quality improvement, financial budgeting and resourcing, digital tools for search, analysis, and collaboration, turning data into evidence-based decisions. Course activities culminate in a presentation of the initiative.

FLDR 260: Leading Project Teams 3 credits
This course focuses on developing **an understanding team dynamic** and the team skills required to accomplish a project. Experiential activities include giving and receiving feedback, listening, motivating, establishing trust, valuing differences and perspectives, using strengths, promoting creative thinking, and planning and conducting meetings.

**GEOGRAPHY (GEOG)**

GEOG 303. World Geography 3 credits
The course provides a regional study of various countries with an emphasis on the interrelationships of social and physical aspects as well as major trends within areas of the world. Specific topics include population, culture, economy, and social issues within each region.

**HISTORY (HIST)**

HIST 211. World Cultures I – To the 17th Century 3 credits
An interdisciplinary survey of major world cultures up to the Renaissance. Emphasis will be given to social, economic, political, religious, intellectual and artistic achievement in selected areas and historical periods to help students develop a world perspective of civilizations.

HIST 212. World Cultures II – 17th Century to Current 3 credits
An interdisciplinary survey of major world cultures from the Renaissance to modern times. Emphasis will be given to social, economic, political, religious, intellectual and artistic achievement in selected areas and historical periods to help students develop a world perspective of civilizations.

HIST 251. Foundations of the American Republic 3 credits
American history from the discovery through Reconstruction. Emphasis is placed on the transplanting of European culture, the development of American political institutions, the rise of democratic capitalism, and the conflicts surrounding the Civil War and Reconstruction.

HIST 252. Contemporary America 3 credits
American history from 1870 to the present. Emphasis is placed on the American response to industrialism, imperialism, and the First World War, the crisis of the 1930s, World War II, the Cold War, and post-industrial America.

HIST 350. Topics in History 3 credits
This course is designed to offer the student a broad selection of in-depth topics or special periods in history. Some of the topics offered will focus upon building the skills needed by those pursuing a career in history and related fields.

HIST 354. The American Civil War and Reconstruction 3 credits
A survey of political, social, and economic issues from the late antebellum period through Reconstruction. Emphasis is placed on the causes of the rebellion, the course and nature of the Civil War, and the problems of postwar America.
HIST 360. From Alexander to Osama: A History of War  
This course traces the history of Western warfare. It begins with the Greek Phalanx and continues through the Roman Legions, the knights of the Middle Ages, the Napoleonic Era, the transition to industrialized warfare, and the rise of unconventional war. It concludes with an examination of whether or not the Western way of war will dominate the geo-political landscape for the foreseeable future. The intimate connection between societies and their armed forces will be examined throughout the course.

HIST 371. History of the Middle East  
A history and geography of the Middle East that focuses on the development of the Islamic state, the culture of the Umayyad, Abbasid, and Ottoman periods, the impact of the West, Arab nationalism and modern crises and conflict in an interdependent world.

HONORS COLLEGE (HNRS)

HNRS 101. Honors Seminar  
A history and geography of the Middle East that focuses on the development of the Islamic state, the culture of the Umayyad, Abbasid, and Ottoman periods, the impact of the West, Arab nationalism and modern crises and conflict in an interdependent world.

HEALTH PROMOTION (HPRO)

HPRO 100. Introduction to Health Promotions  
This is an introductory course that focuses on the practice of health promotion and education. Students will learn the major responsibilities of a health education specialist and the historical progression of the profession, as well as, the current and future role of health promotion and education. Students will also be introduced to basic health promotion planning, implementation, and advocacy principles with an added emphasis on health behaviors, exercise prescription, professional associations, and credentialing.

HPRO 475. Health Promotion Capstone  
A capstone course for health promotion majors that focuses on the application and demonstration of skills needed to plan, implement, and evaluate health promotion programs in a variety of settings.

HPRO 497. Internship in Health Promotion  
Students acquire professional experience in their chosen field. Internship arrangements between the student and instructor must be solidified prior to enrolling in this course.

HPRO 498. Internship in Health Promotion  
Students acquire professional experience in their chosen field. Internship arrangements between the student and instructor must be solidified prior to enrolling in this course.

HEALTH SCIENCES (HSCI)

HSCI 105. Essential Concepts for Health Science Professionals  
This course will examine healthcare systems within the United States to healthcare systems around the globe. Entering health science students will learn essential skills to be an active participant within today’s healthcare society including basic medical terminology, abbreviations and definitions; interprofessional communications; and cultural diversity. Upon completion of this course students will be prepared to navigate through a variety of healthcare systems.
HSCI 110. History of Health Science  
History of Health Science focuses on the general survey of medical knowledge chronologically arranged from ancient times to present day. The class will spend time examining topics such as: race, social class, gender, economics, politics, education and mass media and their role in the history of medicine. Students will learn how the history of medicine has affected and changed society.

HSCI 112. Drug Calculations  
This course will examine multiple methods to calculate drug dosages. Students will use multiple mathematical equations in order to calculate medication dosages, medication preparations, and medication infusions. Students will learn the appropriate Joint Commission approved abbreviations for measurement.

HSCI 201. Assessment  
This course is designed to enable health science students to assess the health status of individuals across the life cycle. Students will collect and interpret data using basic skills of communication, observation and physical examination. Co-requisite: Biology 251. Enrollment limited to radiologic science students or by permission of the Instructor.

HSCI 201L. Assessment Lab  
This course is taken concurrently with HSCI 201 to provide students with opportunity to collect and interpret data using basic skills of communication, observation, physical examination, and documentation. Co-requisite: BIOL 251. Enrollment limited to baccalaureate nursing or radiologic science students, or by permission of the Instructor.

HSCI 204. Nutrition  
Introduces students to the role of nutrition in maintaining and promoting a healthful life style. Students completing the total course will have a beginning orientation to applied diet therapy as it pertains to management of the athlete and to individuals with common nutrition-related problems.

HSCI 206. Health Communication  
Students focus on communication with clients while applying principles of therapeutic communication and group process. Students are introduced to multidisciplinary principles and techniques of documentation, including medical terminology. Use of technology to identify resources and enhance communication is encouraged. Course is open to health science majors or by permission of the faculty.

HSCI 228. Foundational Concepts for Interprofessional Practice  
This course provides an introduction to teamwork across the disciplines. Students will develop an understanding of the different members of the healthcare team and how those members can come together to form a productive and efficient team that improves patient outcomes. The course will examine foundational interprofessional leadership skills, collaborative practice and best practice as a team member.

HSCI 234. Interprofessional Evidence Based Practice  
This course provides an introduction to teamwork across the disciplines. Students will use knowledge from previous courses to apply concepts regarding teamwork. The applied knowledge will be used to differentiate between members of the healthcare team and how their collaboration benefits patient care. The course will analyze interprofessional leadership skills, collaborative practice and best practice as a team member. Students will perform as a team to apply leadership skills to improve patient outcomes through complex scenarios and case studies.
HSCI 302. Health Ethics and Policy 3 credits
This course is a multidisciplinary bioethics course designed to teach ethical problem-solving to future health care professionals. Current policy issues are posed as ethical dilemmas for discussion and review. Open to junior/senior health science majors or by permission of the instructor.

HSCI 310. Health Informatics 3 credits
This course will examine Health Informatics as it applies to the healthcare team; including terminology, theory, technologies, workflow, evidence-based practice, regulations, and common tools.

HSCI 312. Statistics for Evidence Based Practice 3 credits
This course prepares the student to evaluate statistical concepts, technology, statistical models, and skills necessary to interpret data to build evidence-based practice (EBP).

HSCI 315X. Innovation in Health Science 1 credit
This practicum course explores innovation in an effort to positively enhance the current state of healthcare. It is designed to analyze existing challenges and create innovative approaches to strengthen healthcare through knowledge and research.

HSCI 401. Health Leadership and Management 3 credits
This is an interdisciplinary health science course designed to teach leadership and management principles and process. Open to junior/senior health science majors or by permission of the instructor.

HSCI 402. Research I 3 credits
Explores the process and methods of scientific inquiry and interpretation of research findings in health sciences. The learner should have a basic understanding of conducting library and Internet information searches prior to enrolling in this course. Open to junior/senior health science majors or by permission of the instructor.

HUMANITIES (HUMN)

HUMN 101. Introduction to Humanities 3 credits
Designed to investigate human creativity in a variety of areas, including the visual, performing, and literary arts. The course provides an opportunity for each student to recognize his or her personal taste while learning to understand and enjoy works outside their own personal preferences. Through learning activities and experiences in the class, the student is encouraged to develop individual creativity.

HUMN 110. Unheard Voices: Native Americans, Latinos, and African-Americans in the Humanities 3 credits
This course is designed to help students explore the importance of the work of Native American, Latino, and African-American artists in the humanities. The course strives to analyze literature, poetry, film, music, and the visual arts to see how artists in these groups have expressed their identity and cultural experiences.

HUMN 112 Graphical Storytelling in the Humanities 3 credits
This course is designed to study the concept of storytelling in the humanities. Students will be privy to ideas put forth in selected graphic novels (comic books). The ability to view and understand those ideas in both images as well as the written word will work to enhance student recognition and experience in reading such works. By the end of the semester, students will be able to understand the importance of varying creative formats (including visual, written, audio, etc.), audience understanding, and authorial intent as well as how those work together to enhance the reading (and writing) processes.
HUMN 113 Rock and Roll Culture 3 credits
This course is designed to promote an understanding and appreciation of rock ‘n’ roll music through the exploration of the music itself, but also its impact on various artistic disciplines such as, but not limited to, visual art, literature and film.

HUMN 119 Propaganda and Humanities: Influencing Opinions through Different Art Mediums 3 credits
This course is designed to assist students in discovering how propaganda is used to express and influence opinions through humanities. The course is divided into three categories: Anti-Japanese & Nazi Propaganda, Movies, and Comic Books. Students will explore different mediums of humanities, such as visual, performance, and written, to uncover the messages created and the effect on the intended targets.

COMMUNICATION (COMN.BA)

ICOM 151. Human Communication 3 credits
Exploration of the fundamental elements, characteristics and processes of communication, including communicating in a multicultural society, interpersonal and intrapersonal communication and communicating in the context of small groups.

ICOM 200. Media and Society 3 credits
This course explores the mass media and their roles in contemporary society. Students examine divisive issues raised by the pervasive influence of mass media, such as the concentration of media ownership, media violence, gender and ethnic representation in advertising, and how the media affects the process of political persuasion.

ICOM 201. Public Speaking 3 credits
Students will learn theories of rhetoric and speech, including the use of language, structure, and context. Students will practice speaking in various rhetorical situations. Emphasis will be given to honing student skills in informative and persuasive speaking. Prerequisite: SPCH 103.

ICOM 221. Introduction to Journalism 3 credits
A study of the field of journalism with emphasis on the print media and its role in American society, while giving a basic introduction to the various phases of journalistic work.

ICOM 225. Introduction to Public Relations 3 credits
This course, which introduces the student to communication between an organization and its public, focuses on definition and on historical development and challenges, as well as on techniques of management in public relations.

ICOM 230. Graphic Design I 3 credits
(This is a cross-listed course. See ART 230.)

ICOM 350. Special Topics in Mass Communications 1-3 credits
This course allows students to explore a specific aspect or area of mass communication. It may be repeated on different topics with departmental approval.

ICOM 361. Practicum in Communication 1-3 credits
Students acquire professional skills through service learning in the UC community. Students may write for the school newspaper, The Eagle, or assist the university’s Office of Communication or another ancillary service, as appropriate for their program concentration.
ICOM 362. Public Relations Writing 3 credits
A survey of public relations writing techniques for formats such as press releases, public service announcements, memorandums, media alerts, features, newsletters, and public relations presentations. Prerequisite: COMM 225.

ICOM 400. Communication Theory and Research 3 credits
A detailed examination and application of theories relevant to the practices and issues of communication. Prerequisite: COMM 150 and COMM 200.

ICOM 405. Senior Project in Communication 3 credits
Each student will develop and complete a significant project of professional quality for a nonprofit organization. Students must produce an original publication, plan an event, or assist with rebranding efforts. Prerequisite: senior standing as a Communication major.

ICOM 441. Communication Law and Ethics 3 credits
The course provides examination of the theory and application of law and the media, with special attention to copyrights, contracts and torts, liabilities, FCC requirements and ethics. Prerequisite: COMM 200.

ICOM 455. Graphic Design II 3 credits
This course provides advanced experience for students in the creation and editing of digital images for various publications and formats. Students will learn how to design and author advanced interactive multimedia applications. Prerequisite: ICOM 230.

ICOM 480. Seminar in Professional Development 3 credits
The development and evaluation of professional credentials for entry into the communication industry. This capstone seminar course focuses on the preparation of cover letters and resumes, as well as portfolio development and interview techniques. Prerequisite: Senior standing within Communication major.

ICOM 498. Internship in Communication 3 credits
Students acquire professional experience in their chosen field. Internship arrangements between the student and instructor must be solidified prior to enrolling in this course. Prerequisite: Senior standing as a Communication major.

MATHEMATICS (MATH)

MATH 116. Survey of Mathematics 3 credits
A survey course in mathematics designed for liberal arts students and prospective elementary school teachers. Emphasis is on the nature of mathematical knowledge, its language, methodology, and its applications. Topics are selected from critical thinking skills, set theory, logic, systems of numeration, geometry, consumer mathematics, probability, and statistics.

MATH 120. Intermediate Algebra 3 credits
This course helps prepare students for College Algebra, providing a basic background in number theory and algebra. Topics are selected from the real number system, linear equations, problem solving, polynomials, exponents, rational expressions, roots and radicals.

MATH 121. College Algebra 3 credits
This course helps prepare students for Pre-calculus and the two-semester general chemistry sequence. Topics are selected from polynomials, rational expressions, linear and quadratic equations, functions, linear systems, matrices and determinants, and conics. Prerequisite: C or better in MATH 120 or Math ACT score of 21 or higher (Math SAT of 545 or higher).
MATH 123. Pre-calculus  
This course helps prepare students for the three-semester calculus sequence. Emphasis is on the study of functions, their inverses, and their graphs. The functions investigated include polynomial, rational, exponential, logarithmic, and trigonometric. Algebraic and graphical methods will be used to solve equations and inequalities. Applications of the concepts developed are a fundamental part of this course. Prerequisite: C or better in MATH 121 or Math ACT score of 24 or higher (Math SAT of 590 or higher).

MATH 201. Calculus I  
An introductory course dealing with limits, derivatives, anti-derivatives, and their applications. Prerequisite: C or better in MATH 123

MATH 202. Calculus II  
The differentiation and integration of elementary types of function, their application to problems in analytic geometry, physics, and related sciences. Techniques of integration, improper integrals, and infinite series are discussed. Prerequisite: C or better in MATH 201.

MATH 203. Calculus III  
This course includes the study of functions of more than one variable, partial derivatives, total differentials and the chain rules, surfaces and curves in space, directional derivatives, and double and triple integrals. Prerequisite: C or better in MATH 202.

MATH 225. Discrete Mathematics  
Topics to be covered include basic proof techniques; counting, graphs, trees, relations, analysis of algorithms; and recursion. Prerequisites: COSC 102 and MATH 201.

MATH 230. Linear Algebra  
The course covers linear systems, matrices and determinates, vector and inner product spaces, eigenvalues and eigenvectors, and linear transformation. Prerequisite: a grade of C or better in COSC 101.

MATH 324. Fundamentals of Mathematics Instruction  
This methods course provides various experiences in manipulative materials and modes, motivational techniques, and methods of teaching mathematics in grades K-6. An understanding of mathematical concepts, including numeration, operations, fractions, geometry, measures, and measurements will be developed throughout the course. Prerequisites: MATH 116 and Admission to the Education Department.

MANAGEMENT (MGMT)

MGMT 311. Principles of Management  
This course is designed to provide an overview of the major functions of management with emphasis on planning, organizing, leading and controlling the organization’s resources. Management theory, global management, and ethics are also addressed. (offered in fall and spring; offered online in fall and spring)

MGMT 318. Organization and Operation of Small Business  
For all persons interested in starting, buying or continuing a small business. Major areas of concentration will be franchising, site location, physical facilities, financing, profit planning and control, record keeping and management. Prerequisites: ACCT 201, MGMT 311, and MRKT 321.

MGMT 319. Seminar in Small Business Problems  
Student experiences working with small business problems and helping to solve them. Prerequisite: MGMT 318 or consent of instructor.
MGMT 320. Human Resources Management 3 credits
Personnel management has to do with planning, organizing and controlling the performance of various activities concerned with procuring, developing, maintaining and utilizing a labor force so that the objectives and purposes for which the company is established are attained as effectively and economically as possible, and that those of labor itself are served to the highest possible degree. Prerequisite: MGMT 311.

MGMT 350. Special Topics 3 credits
The course will include topics devoted to the study of Management.

MGMT 355. Free Enterprise 3 credits
An experiential course in which students develop and conduct outreach programs to teach and promote free enterprise with a focus on the triple bottom line – people, profit, planet - to various publics. Students will develop greater understanding of and appreciation for the concept of freedom as it applies to the marketplace. The course provides students with unique opportunities to learn about and teach the principles of free enterprise. Students learn to work both individually and as a group to develop and complete projects designed to teach the principles of a market economy to a level of understanding and appreciation.

MGMT 365. Labor Relations 3 credits
A survey course of the economic forces generating modern labor problems. Consideration is given to the labor force, the labor market, the development, the operations and policies of organized labor and collective bargaining. Prerequisite: ACCT 201 and MGMT 311.

MGMT 420. Organizational Behavior 3 credits
Behavioral science concepts and research findings directed toward understanding human behavior within organizations. This behavior is considered as a function of the individual, the groups within which they interact and the structure of the larger organization within which they operate. Prerequisites: MGMT 311 and 90 or more credit hours. (offered in fall and spring; offered online in fall)

MGMT 445. Operations Management 3 credits
Basic fundamentals of management underlying the problems of organization and operation of business enterprises. Application of those principles to specific industrial problems such as plant location and layout; quality, production and cost controls; time studies, job analysis, wage studies; industrial safety and industrial relations. Prerequisite: BUSI 316 or equivalent.

MARKETING (MRKT)

MRKT 321. Principles of Marketing 3 credits
A study of the economic processes including understanding buyers and markets, targeting and satisfying customer segments, and using social media. The course is designed to engage students in marketing strategy and planning and provide students the opportunity to pursue a certification in Google Analytics. Prerequisites: ACCT 201 and BUSI 201 or BUSI 202. This course provides an opportunity for professional development.

MRKT 322. Marketing Management 3 credits
An advanced course in marketing theory and practice, concentrating on marketing management problems at the executive level, with attention given to the reading and evaluation of current literature in the field, and utilizing case analyses and marketing games. Prerequisite: MRKT 321.
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<th>Course Code</th>
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<tr>
<td><strong>MRKT 343. Sales and Sales Management</strong></td>
<td>3 credits</td>
<td>A study of the varying approaches to personal and institutional selling including support systems and servicing of customers. The processes involved in planning and administering the selling efforts for firms are discussed in detail. Prerequisite: MRKT 321.</td>
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<tr>
<td><strong>MRKT 371. E-Marketing</strong></td>
<td>3 credits</td>
<td>The course introduces the fundamental relationship between the Internet and modern marketing techniques. Students will be exposed to pricing, promotion, and product development as influenced by the electronic medium of selling. Prerequisite: MRKT 321.</td>
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<tr>
<td><strong>MRKT 401. Advertising</strong></td>
<td>3 credits</td>
<td>Principles of all forms and stages of advertising procedure. Study of methods and effectiveness of mail, radio, newspaper and other types of advertising. Prerequisite: MRKT 321.</td>
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<tr>
<td><strong>MRKT 402. Marketing Research</strong></td>
<td>3 credits</td>
<td>The application of statistical and behavioral research techniques to the problems of marketing operations in the business firm. Includes the use of computerized statistical computations and data management. Prerequisites: MRKT 321, BUSI 317.</td>
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**MILITARY SCIENCE (MSCI) – OFFERED IN COOPERATION WITH WV STATE UNIVERSITY**

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<tr>
<th>Course Code</th>
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<tr>
<td><strong>MSCI 101. Introduction to Military Science</strong></td>
<td>2 credits</td>
<td>A topical survey of military science that introduces the student to the organization of the U.S. Army, contrasting and comparing it with civilian organizations; introduces the student to basic concepts of drill and ceremony; provides basic techniques to refine a student’s listening, writing and speaking abilities; examines the nature of military law; explains the evolution of military heritage and standards of professional behavior; provides an overview of training management principles; and throughout the course concentrates on building student self-discipline and self-confidence. Co-requisite: MSCI 103 Military Leadership Laboratory I; participation in a physical fitness class and a weekend field training exercise is optional but highly recommended.</td>
</tr>
<tr>
<td><strong>MSCI 102. Introduction to Leadership</strong></td>
<td>2 credits</td>
<td>Continuation of MSCI 101. Students will learn to apply principles of effective leading; reinforce self-confidence through participation in physically and mentally challenging exercises with upper division ROTC students; develop communication skills to improve individual performance and group interaction; and relate organizational ethical values to the effectiveness of a leader. Co-requisite: MSCI 104 Military Science Leadership Laboratory II; participation in a physical fitness class and a weekend field training exercise is optional but highly encouraged.</td>
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<tr>
<td><strong>MSCI 103. Military Leadership Laboratory</strong></td>
<td>1 credit</td>
<td>Open only to and required of students in the associated MSCI course (101, 102, 203, 204). This laboratory course is designed to offer the student an opportunity for integration and application of training management and leadership skills. Team members and leadership positions are tailored based on the student’s academic alignment. Course includes exercises such as rappelling, group presentations, basic marksmanship, and drill and ceremonies.</td>
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<tr>
<td><strong>MSCI 104. Military Leadership Laboratory II</strong></td>
<td>1 credit</td>
<td>Continuation of MSCI 103.</td>
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<tr>
<td><strong>MSCI 203. Military Leadership Laboratory III</strong></td>
<td>1 credit</td>
<td>Continuation of MSCI 104.</td>
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MSCI 204. Military Leadership Laboratory IV 1 credit
Continuation of MSCI 203.

MSCI 150. Basic Physical Fitness and Conditioning 1 credit
Open to all students, but required of students enrolled in MSCI 201 and 202. Students participate in and learn to lead a physical fitness program. Emphasis is on the development of an individual fitness program and the role of exercise and fitness in one’s life. Leadership positions are tailored based on the student’s academic alignment.

MSCI 151. Basic Physical Fitness and Conditioning 1 credit
Continuation of MSCI 150.

MSCI 201. Introduction to Small Unit Leadership 2 credits
Students learn and apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams. Course focuses on the development of skills in oral and written communications, planning events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics. Prerequisite: MSCI 101 and 102 or permission of the Professor of Military Science. Co-requisites: MSCI 250 and 203.

MSCI 202. Practicum in Military Training and Tactics 2 credits
Introduction to individual and team aspects of military tactics in small unit organizations. The class compares the actions of small organizations in the process of developing strategy and tactics, while taking into account theoretical, political, economic, and physical factors. Continue development of leadership and critical skills. Prerequisites: MSCI 101 and 102 or prior military training or permission of the Professor of Military Science. Co-requisites: MSCI 251 and 204; participation in a weekend field training exercise is optional but highly encouraged.

MSCI 210. Camp Challenge 0-6 credits
A five-week summer camp conducted at an Army post. The student receives pay. Travel, lodging, and most meal costs are defrayed by the Army. The environment is rigorous and is similar to Army Basic Training. No military obligation is incurred. Open only to students who have not taken the sequence of MSCI 101, 102, 201, 202. Entry also requires students to pass a physical examination (paid for by ROTC). Completion of MSCI 210 qualifies a student for entry into the Advanced Course. Three different training cycles are offered during the summer, but spaces are limited by the Army. Candidates can apply for a space any time during the academic year prior to the summer of intended participation. Students are eligible to compete for ROTC scholarships during the summer camp.

MSCI 250. Basic Physical Fitness and Conditioning 1 credit
Continuation of MSCI 151.

MSCI 251. Basic Physical Fitness and Conditioning 1 credit
Continuation of MSCI 251.

MSCI 301. Leading Small Organizations I 2 credits
Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and to lead again in situations of increasing complexity. Uses small unit defensive tactics and opportunities to plan and conduct training for lower division students both to develop skills and as vehicles for practicing leadership. Co-requisites: MSCI 303 and 350. Participation in one weekend field training exercise is required, and one or two more weekend exercises may be offered for optional participation.
MSCI 302. Leading Small Organizations II  2 credits
Continues methodology of MSCI 301. Course focuses on the skills necessary to analyze tasks, prepare written and oral guidance for team members to accomplish tasks, and delegate and supervise; to plan for and adapt to the unexpected in organizations under stress; and to examine the importance of ethical decision making in setting a positive climate that enhances team performance. Prerequisite: MSCI 301. Co-requisites: MSCI 351 and 304.

MSCI 303. Advanced Course Leadership Laboratory I  1 credit
Open only to students in the associated MSCI lecture courses (MSCI 301, 302, 401, 402). Different leadership roles are designed for students at different levels of the program. The course involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with Basic Course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

MSCI 304. Advanced Course Leadership Laboratory II  1 credit
Continuation of MSCI 303.

MSCI 310. ROTC National Advanced Leadership Course (NALC)  6 credits
A six-week camp conducted at an Army post. Required of students who have completed MSCI 301 and 302. The student receives pay. The U.S. Army defrays travel, lodging, and most meal costs. The NALC environment is highly structured and demanding, stressing leadership at small unit levels under varying, challenging conditions. Individual leadership and basic skills performances are evaluated throughout the course. The leadership and skills evaluations at the course weigh heavily in the subsequent selection process that determines the type of commission and job opportunities given to the student upon graduation from ROTC and the college.

MSCI 311. Nurse Summer Training program  6 credits
The NSTP is open only to nursing students who completed Advanced Camp. It is a three-week clinical elective for Army ROTC nurse cadets. This paid elective is conducted at army hospitals in the United States, Germany and Korea. Students attend NSTP during the summer with NALC. During the NSTP clinical elective, students receive “hands-on” experience under the direct supervision of a preceptor; an Army Nurse Corps officer who works with students one on one. Students will exercise leadership skills in a hospital environment by carrying out planning, organizing, and decision-making activities, and by implementing and being accountable for the outcome of nursing care. Students will collaborate with health care professionals on decisions related to patient care, management, unit issues and strategies used in the provision of medical care to a select population.

MSCI 350. Advanced Physical Fitness Training & Conditioning I  1 credit
Students will participate in and learn to plan and lead physical fitness programs. Develops the physical fitness required of an officer in the U.S. Army. Open only to, and required of students in MSCI 301.

MSCI 351. Advanced Physical Fitness Training & Conditioning II  1 credit
Continuation of MSCI 350. Open only to and required of students in MSCI 302. Open only to, and required of, students in MSCI 302.

MSCI 401. Leadership Challenges and Goal Setting  2 credits
Students plan, conduct, and evaluate activities of the ROTC cadet organization; articulate goals and put plans into action to attain them; assess organizational cohesion and develop strategies to improve it; and learn and apply various Army policies and programs in this effort.
Co-requisites MSCI 403 and 450. Participation in one weekend field training exercise is required, and one or two more weekend exercises may be offered for optional participation.

**MSCI 402. Transition to Lieutenant** 2 credits  
Continues the methodology of MSCI 401. Students identify and resolve ethical dilemmas and refine counseling and motivating techniques; examine aspects of tradition and law as related to leading as an officer in the Army; and prepare for a future as a successful Army lieutenant. Co-requisites: MSCI 404 and 451. Participation in weekend field training exercise is required, and one or two more weekend exercises may be offered for optional participation.

**MSCI 403. Advanced Course Leadership Laboratory III** 1 credit  
Continuation of MSCI 304.

**MSCI 404. Advanced Course Leadership Laboratory IV** 1 credit  
Continuation of MSCU 403.

**MSCI 450. Advanced Physical Fitness Training & Conditioning** 1 credit  
Continuation of MSCI 351. Open only to and required of students in MSCI 401.

**MSCI 451. Advanced Physical Fitness Training & Conditioning** 1 credit  
Continuation of MSCI 450. Open only to and required of students in MSCI 402.

**MSCI 490. Seminar in Military Leadership** 1-3 credits  
The seminar will include classes, directed readings, and both oral and written presentations on such topics as logistic management, national security, military law, ethics, and analytical models for decision making. Prerequisites: junior or senior standing and permission of the Professor of Military Science.

**MUSIC (MUSC)**

(Applied Music courses are at the end of the MUSC listing.)

**MUSC 111. Music Skills for Elementary Classroom Teachers** 3 credits  
The course provides the future elementary educator with the rudiments of music, including an introduction to singing simple pieces. Philosophy and methods of teaching on the preschool and elementary level are emphasized. No pre-requisite.

**MUSC 212. Music Appreciation** 3 credits  
A survey of Western music designed to furnish the non-music major with a basis for intelligent and enjoyable listening. Representative musical works heard and examined for musical content and historical perspective. The student also is exposed to a variety of non-Western music. No pre-requisite.

**MUSC 280. History of Rock and Roll** 3 credits  
A survey of Rock and Roll music from the 1950’s to the present. Study of the subject begins with a brief survey of American popular music in the 18th, 19th, and 20th centuries with special attention given to the direct antecedents of rock; country music, jazz, and rhythm and blues. Each style of rock music is then discussed in the context of the development of musical style and the cultural, sociological and political context in which it was written and performed. Prerequisite: COMM 101 and COMM 102.

**MUSC 282. World Music** 3 credits  
A survey of the traditional and popular music of non-western countries, an examination of folk music, traditions of Europe, South and North American, and popular music in the United States. All music studied is placed in the appropriate cultural, historical and sociological context. Prerequisite: ENGL 102.
MUSC 324. Concert Choir 1 credit
The Concert Choir is the central performing ensemble of the University of Charleston. Membership is open to all university students and everyone is encouraged to join. A wide range of both sacred and secular choral literature is studied and numerous performances are scheduled during the semester. Three rehearsals each week. Participation of members in all scheduled rehearsals and performances required. An audition is required, but students should register before they audition. Offered every semester.

MUSC 327. Band 1 credit
Rehearses two credits per week. Admission by audition. Open to all University of Charleston students. The band program offers the student the opportunity to study literature in a variety of styles. Offered every semester.

MUSC 328. University Singers 1 credit
Mixed ensemble of 12-16 singers performing a variety of chamber chorus repertoire. Three rehearsals each week, and many performances during the semester. Participation of members in all scheduled rehearsals and performances is required. Membership by audition. Must be a member of Concert Choir (MUSC 324). Offered every semester.

MUSC 350P- MUSC 368P Applied Music (Private Lessons) 1 credit
Consists of a series of 15 lessons. To receive credit for private study, students must audition before the appropriate applied study instructor before registering. Students should consult with the Coordinator of the Music Program to determine the appropriate instructor. A fee of $90 will be added to the bill of those students who enroll in one credit of applied lessons unless the course is being taken as a requirement for the music major or minor.

MUSC 350P. Applied Voice 1-2 credits
MUSC 351P. Applied Piano 1-2 credits
MUSC 352P. Applied Guitar 1-2 credits

NATURAL SCIENCE (NSCI)

NSCI 117. Why Science Matters 3 credits
This is a general science course offered to non-science majors as part of the FYE (First Year Experience) program. The objectives of this course are to familiarize students with the ideas, history, and philosophy of science, providing a greater appreciation for the scientific issues of our times. Students will gain basic understanding of the universe, the planet we inhabit, and details about our species’ history and effect on this planet. This course also provides the opportunity for the student to develop his or her scientific and information literacy, critical thinking skills, and written communication skills. The in-seat course provides students an opportunity to satisfy either COMM 101 or COMM 102 portfolio writing requirements. The online version does not include the COMM portfolio building opportunity.

NSCI 205. Physical Science 4 credits
A survey course in physical science designed for non-science majors and for prospective elementary school teachers. Emphasis is on the understanding of the significant concepts of physical science combined with the appropriate level of mathematics. The topics chosen represent the most suitable cross section of physical science content that students will need to understand modern technical and scientific developments. Topics covered
fall under the categories of motion and forces, energy, heat, waves and sound, light and optics, electricity and magnetism, atomic and nuclear physics, plus atmospheric and water cycle phenomenon. Students will also examine the relationships of science, technology, and society within each topic. Taught in the fall semester and, when sufficient demand exists, during the summer term.

**NSCI 206. Earth and Space Science**  
3 credits  
This course surveys the earth and space sciences and is designed for non-science majors and for prospective secondary science instructors and elementary school teachers. Emphasis is on an understanding of the significant concepts and principles of astronomy, meteorology, and geology. Topics covered fall under the categories of planet earth, the land, oceans, atmosphere, plus the heavens, solar system, stars, galaxies, and the universe. Students also examine the relationships of human society within the appropriate earth science topics. Taught in the spring semester and, when sufficient demand exists, during the summer term.

**NSCI 220. Statistics in Science and Research**  
3 credits  
This course is designed specifically for science majors. The course will provide the student with a thorough background in statistics which will permit them to conduct scientific research and to understand and interpret the results of scientific research. Topics include normal distributions, interval estimates, t-tests, Chi Square tests, correlation and regression, ANOVA, Factorial ANOVA and non-parametric tests. Software use is required. Required of all science students. Emphasis is placed on hypothesis testing, statistical analysis of data, and writing in the sciences. Prerequisite: MATH 121 or Math ACT score of 24 or higher. Offered every semester.

**NSCI 333. History of Science**  
3 credits  
This course traces the development of scientific thought from its earliest beginnings in ancient history to modern times. The use of the scientific method in the development of theories will be illustrated for a variety of topics. Topics covered include atomic theory, medicine, evolution, origin of the universe, and genetic theory. The contributions to these areas from a variety of cultures including Egypt, Greco-Roman, Islam, and China, as well as the contributions of European and American scientists. Offered every spring semester.

**NSCI 345. Issues in Medicine**  
3 credits  
Issues in Medicine provides an exploration of ethical principles and their application to moral and social problems confronting the practice of medicine today. Topics include, but are not limited to patient autonomy, informed consent, physician aid in dying, human research, allocation of scarce health care resources, and other matters associated with morality and the practice of medicine. Issues in Medicine includes a required service-learning experience, providing opportunities to connect service to ethics. This course is offered in the fall and spring semesters. Prerequisites: BIOL 130, NSCI 220, or consent of the instructor.

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**NURSING (NURSA, NURSB, AND NURSR)**

**NURSA – Associate Degree Courses**

**NURSA 101. Fundamentals of Nursing**  
4 credits  
This course introduces the student to the scope of practice of the associate degree nurse as a foundation for subsequent nursing courses. Nursing process is presented with a focus on assessment. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Classroom time will be utilized to help the student clarify
NURSA 101L. Fundamentals of Nursing Clinical/Lab/Simulation 2 credits
This course introduces the student to the scope of practice of the associate degree nurse as a foundation for subsequent nursing courses. Nursing process is presented with a focus on assessment. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. The course will be utilized to help the student clarify content and make connections with content and application in regard to safe, competent care of the patient. This lab is Pass/Fail credit. Co-Requisite: NURSA 101, NURSA 204, 204L, HSCI 105

NURSA 110. Medical Surgical Nursing I 4 credits
This course ascends on the concepts, principles and skills introduced in Fundamentals of Nursing and introduces concepts of holistic nursing care of adults experiencing acute and chronic illness in selected structured settings. This course will deliver interpretation of the nurse’s role in health and illness within evolving practice environments and across the spectrum of health and illness. The course will address nursing care issues from a physiologic, pathophysiologic, and psychosocial context. Nursing students will develop up-to-date knowledge to apply through critical thinking and clinical reasoning. Concepts of communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Time will be utilized to help the student clarify content and make connections with content and application in regard to safe, competent care of the patient. Co-Requisite: NURSA 110L, NURSA 115, 115L and HSCI 125.

NURSA 110L. Medical Surgical Nursing I Clinical/Lab/Simulation 2 credits
This course ascends on the concepts, principles and skills introduced in NURSA 101 Fundamentals of Nursing and introduce concepts of holistic nursing care of adults experiencing acute and chronic illness in selected structured settings. Concepts of communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Classroom time will be utilized to help the student clarify content and make connections with content and application in regard to safe, competent care of the patient. This lab is for Pass/Fail credit. Co-Requisite: NURSA 110, NURSA 115, 115L and NURSA 125.

NURSA 115. Mental Health Nursing 2 credits
Students develop evidence-based practice competence to provide care appropriate to the needs of the client and family affected by mental illness. Emphasis is also placed on providing support to individuals and families seeking higher levels of mental and emotional wellness. Co-Requisite: NURSA 110L, NURSA 115L and NURSA 125.

NURSA 115L. Mental Health Nursing Clinical/Lab/Simulation 1 credit
Experiences are provided for students to interact with and observe individuals in various psychiatric and mental health agencies while applying classroom content. This lab is for Pass/Fail credit. Co-Requisite: NURSA 110L, NURSA 115 and NURSA 125.

NURSA 125. Pathopharmacology I 2 Credits
This course provides a foundation in the pathophysiology of key disease processes and pharmacological therapies. Principles of pathophysiology and pharmacology are presented in an integrated manner to provide a basis of study of selected medications that are used to treat or manage disease with an application to nursing practice. This course will examine how to calculate drug doses. The course will use drug calculation integrated with pharmacology to provide the student with the competency
to calculate and administer medications appropriately based on physician order, drug strength, time and patient weight. Co-Requisite: NURSA 110, NURSA 115

NURSA 204. Health Assessment 3 credits
This course introduces foundational nursing assessment skills and competencies used by professional nurses to provide care to individuals, families, and communities across the lifespan. Students will collect, interpret, and document data using basic skills of communication, observation, and physical examination. Co-Requisite: NURSA 101, 101L, HSCI 105

NURSA 204L. Health Assessment Clinical/Lab/Simulation 1 credits
This course is taken concurrently with NURS-204 to provide students opportunity to collect and interpret data using the nursing process, basic skills of communication, observation, physical examination, and documentation. This lab is for Pass/Fail credit. Co-Requisite: NURSA 101, 101L NURSA 204L, HSCI 105

NURSA 215. Pathopharmacology II 2 Credit
This course provides a foundation in the pathophysiology of key disease processes and pharmacological therapies. Principles of pathophysiology and pharmacology are presented in an integrated manner to provide a basis of study of selected medications that are used to treat or manage disease with an application to nursing practice. This course will examine how to calculate drug doses. The course will use drug calculation integrated with pharmacology to provide the student with the competency to calculate and administer medications appropriately based on physician order, drug strength, time and patient weight. Co-Requisites: NURSA 225, NURSA 230

NURSA 225. Medical Surgical Nursing II 4 credits
This course will deliver interpretation of the nurse’s role in health and illness within evolving practice environments and across the spectrum of health and illness. This course will address nursing care issues from a physiologic, pathophysiologic, and psychosocial context. Nursing students will develop up-to-date knowledge to apply through critical thinking and clinical reasoning. Concepts of communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Co-Requisite: NURSA 215, NURSA 225L, NURSA 230, 230L

NURSA 225L. Medical Surgical Nursing II Clinical/Lab/Simulation 2 credits
This course introduces concepts of holistic nursing care of adults experiencing acute and chronic illness in selected structured settings. Concepts of communication, critical thinking, and ethical practice are examined as they apply to nursing practice. This lab is for Pass/Fail credit. Co-Requisite: NURSA 215, NURSA 225, NURSA 230, 230L

NURSA 230. Obstetric Nursing 2 credits
This course focuses on developing the evidence-based practice to plan, deliver, and evaluate safe care to the childbearing woman, family, and newborn. Emphasis is placed on development of the student’s ability to apply the nursing process to the family unit. Nursing process is presented with an emphasis on the assessment of women and newborn infants. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Co-Requisite: NURSA 215, NURSA 225, 225L, NURSA 230L

NURSA 230L. Obstetric Nursing Clinical/Lab/Simulation 1 credit
This course provides students with experiences to interact with and observe individuals and families in various stages of the childbearing process. This course focuses on developing an evidence-based practice to plan, deliver, and evaluate safe care to the childbearing woman, family, and newborn. Emphasis is placed on development of the
student’s ability to apply the nursing process to the family unit. Nursing process is presented with an emphasis on the assessment of women and newborn infants. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. This lab is for Pass/Fail credit. Co-Requisite: NURSA 215, NURSA 225, 225L, NURSA 230

**NURSA 235. Medical Surgical Nursing III** 4 credits

This course continues to build upon the concepts and principles introduced in previous courses. The student continues to develop competency with the nursing process while caring for adult patients with complex and/or chronic health deviations. Concepts related to delegation of care are introduced. Nursing care reflecting a holistic view of the patient is emphasized. The student expands knowledge and skills in evaluation to examine how health care delivery systems interact and impact patient outcomes. Clinical experiences provide opportunities to apply this theoretical knowledge. Experiences are intended to facilitate the student’s ability to make individual nursing decisions, refine nursing skills and to foster independence within the role of the nursing student. Co-Requisite: NURSA 235L, NURSA 240, 240L, NURSA 250, 250L, NURSA 255

**NURSA 235L. Medical Surgical Nursing III Clinical/Lab/Simulation** 2 credits

This course continues to build upon the concepts and principles introduced in previous courses. The student continues to develop competency with the nursing process while caring for adult patients with complex and/or chronic health deviations. Concepts related to delegation of care are introduced. Nursing care reflecting a holistic view of the patient is emphasized. The student expands knowledge and skills in evaluation to examine how health care delivery systems interact and impact patient outcomes. Clinical and simulation experiences provide opportunities to apply this theoretical knowledge. Experiences are intended to facilitate the student’s ability to make individual nursing decisions, refine nursing skills and to foster independence within the role of the nursing student. This lab is for Pass/Fail credit. Co-Requisite: NURSA 235, NURSA 240, 240L, NURSA 250, 250L, NURSA 255

**NURSA 240. Pediatric Nursing** 2 credits

This course focuses on application of nursing process and growth and development principles to the care of infants, children, and adolescents with selected health deviations. Emphasis is also on health promotions and maintenance of these age groups. Nursing process is presented with a focus on assessment. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Co-Requisite: NURSA 235, 235L, NURSA 240L, NURSA 250, 250L, NURSA 255

**NURSA 240L. Pediatric Nursing Clinical/Lab/Simulation** 1 credit

This course focuses on application of the nursing process and growth and development principles to the care of infants, children, and adolescents with selected health deviations. Emphasis is also on health promotions and maintenance of these age groups. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. This lab is for Pass/Fail credit. Co-Requisite: NURSA 235, 235L, NURSA 240L, NURSA 250, 250L, NURSA 255

**NURSA 250. Nursing Practicum** 2 credits

This Capstone course in the major is designed to promote successful transition from student to graduate nurse by strengthening knowledge, use of theory, critical thinking, beginning management and leadership principles, and the use of legal, ethical, and professional nursing standards in the practice of nursing. P
NURSA 250L. Nursing Practicum Clinical/Lab/Simulation 4 credits
Reliant on competencies developed in all previous nursing courses, and congruent with the ANA Code of Ethics, ANA Scope and Standards of Practice, ANA Nursing’s Social Policy Statement, West Virginia Board of Examiners for Registered Professional Nurses Scope of Practice and Delegation, West Virginia Title 19 Legislative Rules, and West Virginia Code and Law Chapter 30, Article 7, student knowledge and performance is enhanced through a variety of experiences in patient care under the direction of a preceptor. Opportunities are provided for students to experience the role of staff nurse, gain confidence in using critical thinking and technical skills in the clinical environment, strengthen knowledge and use of theory in practice, foster collegial respect, enhance self-image as a nurse, and assist in role transition from student to graduate nurse. This lab is for Pass/Fail credit. Co-Requisite: NURSA 235, 235L, NURSA 240L, NURSA 250, NURSA 255.

NURSA 255. NCLEX-RN Review 2 credits
This course is designed to assist students in their preparation and readiness for NCLEX-RN testing required for licensure as a registered professional nurse. Students will review content identified on the NCLEX-RN Test Plan, take standardized comprehensive NCLEX-RN predictor exams and remediate content deficits. P Co-Requisites: NURSA 235, NURSA 235L, NURSA 240, NURSA 240L, NURSA 250, NURSA 250L.

NURSB – Baccalaureate Degree Courses

NURSB 201. Fundamentals of Nursing 4 credits
This course introduces the student to the scope of nursing practice as a foundation for subsequent nursing courses. Nursing process is presented with a focus on assessment. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Prerequisites: Admission to the BSN program, Completion of all freshman courses or special permission by the program director. Co-Requisites: BIOL 127, BIOL 127L, HSCI 228, NURSB 204, NURSB 204L.

NURSB 201L. Fundamentals of Nursing Lab 2 credits
This course introduces the student to the scope of practice of the associate degree nurse as a foundation for subsequent nursing courses. Nursing process is presented with a focus on assessment. Communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Classroom time will be utilized to help the student clarify content and make connections with content and application in regard to safe, competent care of the patient. Co-Requisites: BIOL 127, BIOL 127L, HSCI 228, NURSB 201, 201L, NURSB 204L. This lab is for Pass/Fail credit.

NURSB 204. Health Assessment 3 credits
This course introduces foundational nursing assessment skills and competencies used by professional nurses to provide care to individuals, families, and communities across the lifespan. Students will collect, interpret, and document data using basic skills of communication, observation, and physical examination. Co-Requisites: BIOL 127, BIOL 127L, HSCI 228, NURSB 201, 201L, NURSB 204L.

NURSB 204L. Health Assessment Lab 1 credits
This course provides students opportunity to collect and interpret data using the nursing process, basic skills of communication, observation, physical examination, and documentation. This lab is for Pass/Fail credit. Co-Requisites: BIOL 127, BIOL 127L, HSCI 228, NURSB 204.
NURSB 210. Medical Surgical Nursing I 4 credits
This course ascends on the concepts, principles and skills introduced in NURSA 101 Fundamentals of Nursing and introduce concepts of holistic nursing care of adults experiencing acute and chronic illness in selected structured settings. NURSA 110 will deliver interpretation of the nurse’s role in health and illness within evolving practice environments and across the spectrum of health and illness. This course will address nursing care issues from a physiologic, pathophysiologic, and psychosocial context. Nursing students will develop up-to-date knowledge to apply through critical thinking and clinical reasoning. Concepts of communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Co-Requisites: HSCI 230, HSCI 235 NURSB 201L, NURSB 215, NURSB 215L.

NURSB 210L. Medical Surgical Nursing I Lab 2 credits
This course ascends on the concepts, principles and skills introduced in NURSA 101 Fundamentals of Nursing and introduce concepts of holistic nursing care of adults experiencing acute and chronic illness in selected structured settings. Concepts of communication, critical thinking, and ethical practice are examined as they apply to nursing practice. Co-Requisite: NURSB 210. This lab is for Pass/Fail credit.

NURSB 215. Mental Health Nursing 2 credits
Students develop evidence-based practice competence to provide care appropriate to the needs of the client and family affected by mental illness. Emphasis is also placed on providing support to individuals and families seeking higher levels of mental and emotional wellness. Co-Requisites: HSCI 230, HSCI 235, NURSA 210, NURSA 210L.

NURSB 215L. Mental Health Nursing Clinical/Lab/Simulation 1 credit
Experiences are provided for students to interact with and observe individuals in various psychiatric and mental health agencies while applying classroom content. Co-requisite: NURSB 115. This lab is for Pass/Fail credit.

NURSB 225. Pathopharmacology I 2 Credits
This course provides a foundation in the pathophysiology of key disease processes and pharmacological therapies. Principles of pathophysiology and pharmacology are presented in an integrated manner to provide a basis of study of selected medications that are used to treat or manage disease with an application to nursing practice. This course will examine how to calculate drug doses. The course will use drug calculation integrated with pharmacology to provide the student with the competency to calculate and administer medications appropriately based on physician order, drug strength, time and patient weight. Co-Requisites: HSCI 230, HSCI 235.

NURSB 315. Pathopharmacology II 2 Credits
This course provides a foundation in the pathophysiology of key disease processes and pharmacological therapies. Principles of pathophysiology and pharmacology are presented in an integrated manner to provide a basis of study of selected medications that are used to treat or manage disease with an application to nursing practice. This course will examine how to calculate drug doses. The course will use drug calculation integrated with pharmacology to provide the student with the competency to calculate and administer medications appropriately based on physician order, drug strength, time and patient weight. Co-requisite: HSCI 310. NURSB 235, NURSB 235L, NURSB 330, NURSB 330L.

NURSB 330. Childbearing Transitions 2 credits
Students study the nursing process and its application to the care of beginning families requiring health promotion and maintenance or experiencing self-care deficits. Theories and principles of family development, family dynamics, childbearing, and care of the
newborn are applied to nursing practice and in acute and community-based settings. Laboratory experiences in a variety of primary and secondary maternity / newborn settings provide opportunities to care for families experiencing normal or complicated pregnancy, childbirth and / or parenting. Selected maternity complications are examined. Prerequisites: NURSB 201, 201L, 204 204L, 210, 210L, 340
Co-requisite: NURSB 305L.

NURSB 330L. Childbearing Transitions Clinical / Lab / Simulation 1 credits
This course applies the theory presented in that class to their professional nursing practice in clinical experiences. Clinical experience assignments in the Skills Lab on campus help the student prepare for professional nursing practice in laboratory settings in Maternal-newborn care in acute and community-based settings. Early in the semester, students take the theory they have mastered and the skills they have built in the campus-based skills lab and apply that theory and corresponding skills to professional nursing practice in clinical settings where patient populations are anticipating pregnancy, pregnant, giving birth, or providing a safe welcoming environment for the newborn. Prerequisites: NURSB 201, 201L, 204 204L, 210, 210L Co-requisite: NURS 330. This lab is for Pass/Fail credit.

NURSB 340. Pediatric Nursing 2 credits
This course provides opportunity for students to develop a theoretical foundation for evidence-based practice competence to address the individual needs of the pediatric client in the context of the family. Developmental frameworks are employed to understand the evidence based therapeutic approaches to children and youth. Prerequisites: NURSB 201, 201L, 204 204L, 210, 210L Co-requisite: NURS 340L.

NURSB 340L. Pediatric Nursing Clinical / Lab / Simulation 1 credits
This course applies the theory presented in that class to their professional nursing practice in clinical experiences. Initial clinical experience assignments enable the student to prepare for professional nursing practice in Pediatric Care in the community. Students apply theory and skill to professional nursing practice in clinical settings where pediatric patient populations and their families are receiving well child care, recovering from illness, or managing chronic diseases. Co-requisite: NURSB 304. This lab is for Pass/Fail credit.

NURSB 325. Nursing in Altered Health II 4 credits
Specific altered health states are explored in depth through application of the nursing process in client care. Clients experiencing chronic as well as acute self-care deficits will be the focus of nursing care. Prerequisites: NURSB 201, 201L, 204 204L, 210, 210L Co-requisites: NURS 325L.

NURSB 325L. Nursing in Altered Health II Clinical / Lab / Simulation 2 credits
Students apply theory to professional nursing practice during clinical experiences, laboratory practice, and simulation. Students provide professional nursing care to seriously ill patient populations that may be anticipating surgery, having surgery, or recovering from medical illness and/or surgery, preparing for professional nursing practice. Early in the semester, students take the theory they have mastered and skills they have built and apply that theory and those skills to professional nursing practice in clinical settings where patients are experiencing medical surgical treatment. Prerequisites: NURSB 201, 201L, 204 204L, 210 Co-requisite: NURS 325. This lab is for Pass/Fail credit.

NURSB 335. Nursing in Health Alterations III 4 credits
Care of clients and families with multiple and/or complex altered health states is the focus for students in this course. Clinical experiences in critical care settings are added to the acute and community settings used in previous courses. Prerequisites: NURSB 201, 201L, 204 204L, 210, 325, 325L Co-requisite: NURS 435L
NURSB 335L. Nursing in Health Alterations III Clinical / Lab / Simulation 2 credits
Students participate in clinical experiences that engage the student to apply skills in clinical practice. Students participate in critical care settings in the community, that serve adult patients experiencing complex multi-system illness. Students take the theory they have mastered and the skills they have built in in previous courses and apply that theory and corresponding skills to professional nursing practice in clinical settings where patient populations are critically ill. Co-requisite: NURS 335. This lab is for Pass/Fail credit.

NURSB 404. Nursing Research 3 credits
This course is an introduction to the designs, methods, ethical principles, and statistical analysis used by nurse-scientists to research health phenomena. Descriptive and inferential statistics are introduced. Data is manipulated, graphed, and analyzed using statistical software.

NURSB 450X. Nursing Practicum I 2 Credits
This practicum course in the major is designed to promote successful transition from student to graduate nurse by strengthening knowledge, use of theory, critical thinking, beginning management and leadership principles, and the use of legal, ethical and professional nursing standards in the practice of nursing, specifically medical surgical nursing. Students must demonstrate application of a personal philosophy of nursing, therapeutic communication, nursing process, quality evaluation and improvement, and legal, ethical and professional standards of nursing. This course is specific to the transition to medical surgical nursing. Co-requisite: NURSB 450L, NURSB 455, NURSB 455L, NURSB 470, NURSB 470L

NURSB 450LX. Nursing Practicum II 4 Credits
Student knowledge and performance is enhanced through a variety of experiences in patient care under the direction of a preceptor. Opportunities are provided for students to experience the role of staff nurse, on a medical surgical unit, gains confidence in using critical thinking and technical skills in the clinical environment, strengthen knowledge and use of theory in practice, foster collegial respect, enhance self-image as a nurse, and assist in role transition from student to graduate nurse. Co-requisite: NURSB 450.

NURSB 455X. Prevention Population Health 3 Credits
This course is designed to help the student develop the knowledge and skill necessary to practice nursing in the context of the community. The focus will include learning about population-based health enhancement initiatives, global health priorities and concerns, disaster nursing, characteristics of effective and ineffective communities, as well as the process of population-based health behavior change. Relying on foundational knowledge from nursing, science, social, and public health resources, students will study evidence-based approaches to applying the nursing process at the community level. The course focus is nursing advocacy as a pathway to local, national, and global health. Co-requisite: NURSB 450, NURSB 450L, NURSB 470, NURSB 470L

NURSB 455LX. Prevention Population Health Lab 1 Credit
During the prevention of population health lab students will focus on nursing practice with families and communities in this lab. Students will be partnered with key community health agencies during the semester. Nursing care provided will be subject to the ANA Code of Ethics and the ANA Scope and Standards Practice. Learning activities will include a community assessment of the geopolitical community or a phenomenological community and participation in a planned intervention project providing primary, secondary and/or tertiary services to benefit the community. This lab is for Pass/Fail credit. Co-requisite: NURSB 455.
NURSB 465. Nursing Practicum II 2 Credits
This capstone course in the major is designed to promote successful transition from student to graduate nurse by strengthening knowledge, use of theory, critical thinking, beginning management and leadership principles, and the use of legal, ethical and professional nursing standards in the practice of critical care nursing. Students must demonstrate application of a personal philosophy of nursing, therapeutic communication, nursing process, quality evaluation and improvement, and legal, ethical and professional standards of nursing. Co-requisite: NURSB 465L, NURSB 470, NURSB 470L, NURSB 475

NURSB 465L. Nursing Practicum II Lab 4 Credits
Student knowledge and performance is enhanced through a variety of experiences in patient care under the direction of a preceptor. Opportunities are provided for students to experience the role of staff nurse, in a critical care setting, to gain confidence in using critical thinking and technical skills in the clinical environment, strengthen knowledge and use of theory in practice, foster collegial respect, enhance self-image as a nurse, and assist in role transition from student to graduate nurse. Co-requisites: NURSB 456.

NURSB 470X. Leadership and Management 3 Credits
This course will examine principles of management and leadership theory. It is designed to assist with the development/augmentation of leadership competencies that promote quality improvement and patient safety, both critical components in the promotion of quality health care. Key components of this course that will assist in the acquisition of leadership competencies include critical thinking, communication, creativity/innovation, legal/ethical, nursing & health care systems, quality improvement and change theory in nursing leadership and management roles. Co-requisite: NURSB 465, NURSB 465L, NURSB 470L, NURSB 475

NURSB 470LX. Leadership and Management 1 Credit
Building upon existing professional nursing practice experiences, this course provides an intensive clinical practicum experience focusing on the application of the nursing management process for organizing and facilitating the delivery of comprehensive, holistic, efficient, and effective nursing care to groups of clients in a variety of settings. Co-requisite: NURSB 470.

NURSB 475. NCLEX-RN Review 2 Credits
This course is designed to assist students in their preparation and readiness for NCLEX-RN testing required for licensure as a registered professional nurse. Students will review content identified on the NCLEX-RN Test Plan, take standardized comprehensive NCLEX-RN predictor exams and remediate content deficits. Co-requisite: NURSB 465, NURSB 465L, NURSA 470, NURSB 470L.

NURSR – RN to BSN Courses

NURSR 302. Advanced Health Assessment for the RN 4 credits
This course prepares the nurse for comprehensive, integrative, and holistic health assessment of groups and populations across the lifespan. Emphasis is placed on data collection, documentation, and analysis of data, information, knowledge, and wisdom development to support nursing decision-making in a technology driven practice.

NURSR 402. Prevention and Population Health for the RN 4 credits
This course prepares the nurse for an understanding of U.S and global population health. Students will explore effective communication strategies designed to reduce risk for disease and develop evidence-based nursing judgements regarding disparities and inequalities within a community health context. Patterns of population health outcomes
will be analyzed and health policy issues that employ advocacy strategies to promote wellness will be examined.

**NURSR 404. Intro to Nursing Research** 3 credits

This course prepares the nurse for research focused on inquiry and an ability to evaluate evidence that underlies clinical practice to a) challenge the status quo, b) question underlying assumptions, and c) to offer new insights to improve the quality of care for patients, families, and communities in a technology driven practice.

**NURSR 410. Leadership and Health Policy for the RN** 4 credits

This course prepares the registered nurse for an understanding of leadership roles, behaviors, and strategies that use digitization, mobility of health services, and complex big data to inform health care leader decisions and advance the work of organizations. The course will focus on evidence-based innovation, clinical therapeutics, and delivery models to support infrastructure as a central function of nursing leaders in all health settings.

**Occupational Therapy Assistant (OTA)**

**OTA 201. Introduction to Occupational Therapy** 3 credits

Fundamentals of occupational therapy, including the roles of both the OTR and the OTA will be explored. The student will learn the history of the profession and the political infrastructure of the American Occupational Therapy Association. Professional behaviors including presentations, communication, and documentation will be emphasized. OT professional language will also be introduced. Prerequisite: OTA program admission or permission of the Program Director.

**OTA 202. Principles of Performance in Occupational Therapy** 3 credits

Fundamentals of Occupational Therapy Assisting, including terminology specific to Occupational Therapy, documentation, and group and communication activities. Basic hands– on work including simple transfers and basic positioning techniques in preparation for more advanced work in 207. Reimbursement and patient advocacy issues are also discussed. Prerequisite: OTA program admission or permission of the Program Director.

**OTA 203. Clinical Kinesiology** 3 credits

Kinesiology is the study of movement of the human body with an emphasis on musculoskeletal components producing specific movements. It involves the study and understanding of functional, anatomical, and mechanical principles that apply to human motion and posture. Kinesiology applies principles of anatomy, physics, and physiology to help analyze human motion. Prerequisite: OTA program admission or permission of the Program Director.

**OTA 204. Occupational Therapy in Adult Physical Performance and Lab I** 4 credits

Presents diagnosis of medical, neurological, orthopedic, and multisystem conditions treated in occupational therapy practice. Etiology, symptomatology, prognosis, and treatment will be discussed. Guest speakers discuss conditions unique to the Appalachian area and treatment. Students are encouraged to develop their problem- solving skills to enhance and normalize the client's way of life. Basic health promotions are stressed. The laboratory element provides a hands-on section for treating physical dysfunction in adults, including transfer training and ADL training. The focus is on correct technique in PROM, AROM, manual muscle testing, and goniometry. Students continue to learn to grade activities. Documentation and professional behaviors are also stressed. Prerequisites: OTA 201, 202; or permission of the Program Director.
OTA 205. Level 1 Fieldwork I  
This is the first fieldwork experience for the OTA student. The student will be assigned a clinical site to observe an Occupational Therapist; an Occupational Therapy Assistant or a professional of another discipline conducting OT related activities, assessments or groups. The student will observe evaluations, and on-going individual and group treatment related to activities of daily living, work and leisure. Level 1 fieldwork will encourage development of professional behaviors including collaborating with other members of the treatment team. Students will be required to complete written assignments including a case study and progress notes. Level 1 fieldwork cannot be used as a substitute for any part of Level II fieldwork. Prerequisites or co-requisites: 201, 202, 208, 203; or permission of the Program Director.

OTA 206. Level 1 Fieldwork II  
This is the second fieldwork experience for the OTA student. The student will be assigned a clinical site to observe an Occupational Therapist; an Occupational Therapy Assistant or a professional of another discipline conducting OT related activities, assessments or groups. The student will observe evaluations, and on-going individual and group treatment related to activities of daily living, work and leisure. Level 1 fieldwork will encourage development of professional behaviors including collaborating with other members of the treatment team. Students will be required to complete written assignments including a case study and progress notes. Level 1 fieldwork cannot be used as a substitute for Level II fieldwork. Prerequisite: 201, 202, 205, 208, 203. Prerequisites or co-requisites: 207, 209, 210, 215; or permission of the Program Director.

OTA 207. Occupational Therapy in Adult Physical Performance and Lab II  
This course provides the student with the theory and practice needed to carry out an occupational therapy treatment program for clients with physical dysfunctions. Ethical, critical and clinical reasoning and cultural and environmental considerations will be imbedded in the course as an integral part of practice. The work in this course will build from OTA 204 and OTA 203. Prerequisites: OTA 201, 202, 205, 208, 203; or permission of Program Director.

OTA 208. Occupational Therapy in Psychosocial Performance  
This course examines the role of occupational therapy in psychiatry and some of the common conditions presented to OTs. Therapeutic use of self and other treatment modalities are explored. Occupational therapy and addiction are also examined. Due to the shrinking role of OT in the traditional psychiatric environment psychosocial issues are discussed across the spectrum of patient populations. Prerequisite: OTA program admission or permission of the Program Director.

OTA 209. Modalities  
This course will provide exposure to the treatment of the geriatric, pediatric, adult and psychiatric populations. Modalities include splinting, wheelchair usage, positioning, facilitation and relaxation techniques, muscle testing, AROM, PROM, adaptive ADL training. Students will also learn budgeting inventory management, supervision and activity planning and implementation. Prerequisites: OTA 201, 202, 208, 203; or permission of the Program Director.

OTA 210. Occupational Performance of Children  
This course will provide the student with the theory and practice of therapeutic techniques necessary to carry out an occupational therapy treatment program in the area of pediatric practice. A variety of evaluations will be introduced; treatment methods explored, along with discharge planning. Skills in ethical reasoning and consideration of
cultural factors are integrated throughout the course. Knowledge gained in the course will give OTA students’ entry-level skills in a variety of pediatric treatment settings. Standards of practice for occupational therapy services in schools will be emphasized. Prerequisites: OTA 201, 202, 205, 208, 203; or permission of Program Director.

**OTA 211 and OTA 212. Level II Fieldwork I & Level II Fieldwork II 6 credits each**
The standards of education for the occupational therapy assistant (as outlined by the American Occupational Therapy Association), require that the student successfully complete at least two Level II clinical fieldwork assignments at (or within 20 months of) the completion of all other academic course work. It is the intention of these standards to encourage the student to gain multiple opportunities to further develop clinical skills in diverse settings, thus insuring a broad-based knowledge of the profession and its practices. The student is encouraged to seek out placements that will best serve these ends. Scheduled with OTA program’s academic fieldwork coordinator, these clinical fieldwork assignments are taken as full-time non-paid, pre-employment experiences. Prerequisite: successful completion of all OTA didactic requirements.

**OTA 215. Occupational Performance in the Older Adult 3 credits**
This course will focus on the geriatric population and their special needs. Psychosocial, physical and environmental needs will be discussed and treatment plans devised; including a community home visit. Prerequisites: OTA 201, 202, 205, 208, 203; or permission of Program Director.

**OTA 216. Capstone Seminar 2 credits**
This weekend course focuses on reviewing major areas of OTA study in preparation for the national certification exam. Practice exams are given. Test taking strategies are discussed. Students are walked through the NBCOT web site in preparation for registering for the certification exam. Prerequisite: successful completion of all OTA courses, including OTA 211 and OTA 212.

**ORGANIZATIONAL LEADERSHIP (ORGL)**

**ORGL 150X. Introduction to Professional Development 3 credits**
An introductory course in adult online learning and outcome-based education. Throughout this course of practicality, the significance of the core material is highlighted through substantial activities utilizing individual and collaborative teamwork, thereby developing and creating professional written submissions in standard APA format. The students will learn to conduct library research and other necessary formative applications within the scope of this course. Students will be introduced to technology utilization and accessing various supportive university functions such as the planning and advising resources provided by the university. Further, the student will develop the critical skills of understanding the concepts academic integrity, and formulate strategies for critical reading, writing, thinking and reflection. The goal of this foundational course is to provide a basis of understanding necessary for online learning academic success.

**ORGL 301. The Adult Learner 3 credits**
Introduces participants to lifelong learning, emphasizing learning and cognition theories, models, and principles applied to the workplace and other adult learning venues. Explores adult learning in different contexts to acquaint participants with the main debates in the field and with the philosophies and methodologies used by a variety of adult education projects. This course will additionally focus upon ethical responsibility of leadership through dimensions of promoting adult learning and practice. This includes reflecting on practicing ethics, self-examination to increase awareness and the understanding of
personal values systems. Contributes to competencies of leading self with character, leading in a climate of change, and leading across boundaries. Online.

**ORGL 302. Principles and Issues of Management** 3 credits
This course introduces a broad range of concepts, theories, and practices important for understanding management principles. Students will explore the core management functions of planning, organizing, directing, and controlling. Topics focus on diversity within an organization and the environment in which managers must effectively operate. The course also addresses the practical applications of management principles and realistic situations managers encounter as they attempt to achieve organizational objectives. Explores behavioral science concepts and research findings directed toward understanding human behavior within organizations; examine and study this behavior as a function of the individual, interactive groups within the organization, and the organization itself. Online.

**ORGL 305. Principles and Issues of Human Resources** 3 credits
Study of organizational structure with emphasis on staffing management involved in recruitment, selection, training, wage and salary administration, and personnel assessment. Introduces employment, selection, and placement of personnel; usage levels and methods; job descriptions; training methods and programs; and employee evaluation systems. Includes leadership procedures for management of human resources and uses case studies and problems to demonstrate implementation of these techniques. Online.

**ORGL 307. Leadership** 3 credits
Introduces a broad range of concepts, theories, and practices important for understanding leadership. Topics focus on various styles and environments in which effective leaders operate and manage their relationships. Emphasis is placed on the application of leadership principles to real-world situations and problems, resulting in quality, productivity, and success as organizations strive to achieve their objectives. Online.

**ORGL 309. Collaborative Leadership** 3 credits
Addresses the need for collaborative and team-engagement skills in twenty-first century leadership. Research and the experience of leaders and scholars show that leading teams and groups to successful realization of goals and projects cannot be accomplished alone. Collaborative leadership emphasizes engagement, capacity building, diversity, social sense-making, and communication as aspects of collaborative work with groups. Online.

**ORGL 316. Ethics** 3 credits
An inquiry into diversity, the fundamental norms of conduct in any organization, and the justifications of conduct in relation to ethical theories. Gives special attention to ethical problems encountered by leaders in organizations and their relationships with members, employees, customers, administrators, and society. Online.

**ORGL 401. The Learning Organization** 3 credits
Addresses a broad range of concepts, theories, and practices from the disciplines of adult learning, organizational development, and human resource development. Emphasizes transformational leadership, how it develops, and the competencies and principles needed to reinvent or transform oneself into a leader. Students examine the change process from the perspective of the individual within an organization. They further examine a career model for improving professional development and explore basic assumptions about the contributions of individuals to organizations, with a goal of producing competent professionals who can think in action and apply their knowledge under changing conditions. Online.
ORGL 402. Organizational Behavior 3 credits
Addresses issues of how people live their lives at work and in organizations. An over-
arching theme of gaining a competitive edge through people involves understanding
individuals as they function in organizations, as well as how organizations design and
structure work to achieve goals. Behaviorally oriented; conceptually, combines the func-
tion of management with the psychology of leading and managing people. Emphasizes
effective use of human resources through understanding diversity; human motivation and
behavior patterns; conflict management and resolution; group functioning and process;
the psychology of decision making; and the importance of recognizing, analyzing, and
managing change. Online.

ORGL 406. Organizational Development and Change 3 credits
Vertically and horizontally integrates all courses in the organizational leadership cur-
riculum. Creates synergies by presenting organizational development as a management
discipline aimed at improving organizational effectiveness by increasing the use of
human resources within the enterprise. Online.

ORGL 408. Action Research 3 credits
Offers an immediate, localized, and actionable framework for investigating and analyzing
organizations. Students learn how to conduct action research as scholar-practitioners in
many diverse fields, as well as how to critically analyze an organization’s operational
components that impact decision making. Provides students with knowledge and practice
for leading for results with resource acumen. Online.

ORGL 413. Human Resource Development 3 credits
Addresses current human resource development practice from the perspective of the role of
change agent and organizational transformation. Incorporates a broad range of concepts,
thories, and practices in human resource and organizational development. Texts present real-
world change agents and their attempts to deal with problems and situations. Online.

ORGL 415. Leadership Communication 3 credits
Expands and hones students’ communication skills as they apply to leadership roles. Stu-
dents develop skills for building relationships across disciplines, departments, cultures,
and politics and for leading engagement and collaboration in local, global, and virtual
realms. Contributes to using language and communication skills as a resource for
leadership, supports leadership in climates of change, and prepares students to lead across
boundaries toward coalition building; conveys core communication concepts by
preparing students to connect and communicate effectively. Meets practical needs of
written communication fluency for leaders, line managers, and consultants. Online.

ORGL 430. Developing Teams 3 credits
This course emphasizes the practical application of leadership concepts, theories, and
practices from coursework in real organizational environments and situations. Provides
flexible opportunities to employ various and evolving technologies. Students design and
implement team and collaborative initiatives that address an organizational problem or
situation for their employer or a comparable organization. Practicum work culminates in
a project that combines an academic paper and video production. Online.

ORGL 435. Organizational Leadership Senior Capstone 3 credits
Emphasizes the practical application of concepts, theories, and practices from program
coursework and liberal learning outcomes in real organizational environments and
situations. Provides flexible opportunities to employ various and evolving technologies.
Students design and implement initiatives for their employer or a comparable
organization. Initiatives incorporate the use of technologies as part of their evolving
leadership practice. Practicum work culminates in an academic paper and digital portfolio. *Online and hybrid.*

**ORGANIZATIONAL LEADERSHIP CONCENTRATIONS**

**Aviation Concentration OLAV**

**OLAV 302X. Principles & Issues of Aviation Leadership**  3 credits  
This course is designed to provide an overview and understanding of concepts, theories, and practices important for a basic understanding of aviation leadership. The course includes the aviation leadership functions of planning, organizing, directing, and controlling, and the changing and diverse environments in which aviation leaders must effectively operate. The course explores Human Factors, Crew Resource Management, Threat & Error Management, Safety Management Systems, and research findings, examining and studying these behaviors as a function of the individual, the interactive groups within the organization, and the organization itself.

**OLAV 316X. Ethical Considerations for Aviation Leadership**  3 credits  
Ethics studies the fundamental norms of conduct in any organization, and the justifications of conduct in relation to ethical theories. This course gives special attention to ethical problems in the three aviation sectors (military, commercial, business) and their relationships with employees, customers, administrators, the FAA and NTSB, and the general public. This course has been designed to give the participant the opportunity to examine the challenges aviators face worldwide and provide some simple strategies for resolving them. Challenges for practicing ethics within aviation and in the international aviation industry will be explored.

**OLAV 402X. Organizational Behavior in Aviation**  3 credits  
This course addresses determinants of individual behavior and how the aviation industry climate and culture influence safety, human error, personal attitudes and fitness-for-duty. It emphasizes effective use of human resources through human factors, situation awareness and behavior patterns; crew conflict management and resolution; the psychology of decision making; and the importance of recognizing, analyzing, and managing change especially in crisis.

**OLAV 415X. Aviation Leadership Communication**  3 credits  
This course contributes to using language and communication skills unique to the aviation industry to adhere to the highest safety standards. Students will develop skills for building relationships across aviation departments, cultures, and politics, as well as leading engagement and collaboration in local, global, and virtual realms. Students will share experiences and review aviation case studies in an effort to further understand intercultural concerns for leadership and the impact globalization continues to have on the aviation industry.

**OLAV 435X. Aviation Leadership Capstone**  3 credits  
The capstone builds on skills and competencies learned in the Aviation Leadership Program. Students will demonstrate their knowledge and skills in understanding the aviation industry’s organizational behaviors, Crew Resource Management, Safety Management Systems, and additional significant dynamics of human behavior. Case studies involving aviation accidents and incident cockpit voice recorder transcripts will be examined to address interpersonal skills relating to safety, decision-making and crew dynamics.
First Responder / Criminal Justice Concentration OLFR

OLFR 302. Principles and Issues of Emergency Planning and Management  3 credits
This course introduces a broad range of concepts, theories, and practices essential for a basic understanding of the fundamental principles and leadership that are foundational for first responder operations, emergency planning, and management. The course examines present emergency management steps and roles as an integrated system with resources and capabilities networked together to address hazards and vulnerabilities. The course will provide a systematic understanding of principles of emergency operations, preparedness, coordinate resources, effective response, mission critical areas, terrorism, mass care, and emergency and day-to-day situations. Additionally, a focus is placed on the application and fundamentals of emergency planning concepts and realistic situations that first responder leaders may encounter.

OLFR 316. Ethical Responsibility and Diversity Awareness in Public Safety  3 credits
This course gives the participant the opportunity to examine the ethical challenges first responders face and learn strategies for resolving them. This is aligned with the lessons on diversity awareness by taking a professional commitment to diversity, culture, and identifying the benefits both individually and collectively for overcoming stereotypes to augment diversity. While some theory is presented, the focus will be on the real world in which we all live and work. Challenges for practicing ethics within a Criminal Justice/First Responder organizational setting will be explored, first by looking at those encountered at the individual level, then interpersonal level, and group level.

OLFR 402. Organizational behavior and Public Trust Formation  3 credits
This course looks at organizational behavior within first responder organizations to promote adaptability within a climate of change. The course emphasizes developing positive working relationships to increase trust between first responder’s organizations and the public. This is accomplished by focusing on innovative and creative solutions to help first responders build lasting partnerships and improve the health and safety of their communities.

OLFR 415. Leadership Communication and Media Community Relations  3 credits
This course focuses on the practical use of relevant language and communication skills by studying core communication concepts to prepare first responders to connect and communicate effectively. Emphasis is placed on building positive media relationships, understanding cross-cultural communication challenges, and creating effective partnerships within the community for improving public perception and involvement.

OLFR 435. Leadership Capstone: Assessing the First Responder Culture  3 credits
This course builds upon skills learned in the core courses and competencies in the Leadership curricula and the Criminal Justice/First Responder concentration. It is designed to produce knowledge and learning by participating in a structured applied experience reference 21st-century challenges facing first responders. Students have an opportunity to apply different information gathering techniques, leadership competencies, and practices presented in previous coursework.

Healthcare Concentration OLHC

OLHC 302X. Principles and Issues of Healthcare Management  3 credits
This course focuses on the application of healthcare related management principles and explores behavioral science concepts and research findings directed toward understanding organizational structure and professional issues in healthcare management. The course includes management in a healthcare environment and the management
functions of planning, organizing, directing, and controlling. Topics focus on diversity within an organization and the environment in which managers must effectively operate in healthcare related conditions.

**OLHC 402X. Organizational Behavior in Healthcare** 3 credits
This course combines the function of leadership with the psychology of leading and managing individuals as well as dealing with patients. The course emphasizes effective use of human resources through understanding diversity; human motivation and behavior patterns; conflict management and resolution; group functioning and process; the psychology of decision making; and the importance of recognizing, analyzing, and managing change with conflict in healthcare. Students explore and examine healthcare organizational structure, environmental influences, and cultural norms for “system fit,” as well as how these present opportunities for change and continuous improvement in a constantly changing healthcare arena.

**OLHC 316X. Medical Law & Ethics** 3 credits
This course will examine ethical challenges in the healthcare arena and provide strategies for resolution. The focus of the course will begin with defining healthcare organizational ethics understanding medical law and ethics. Challenges for practicing ethics within a healthcare organizational setting will be explored, first by looking at those encountered at the individual level, then interpersonal level, and group level.

**OLHC 415X. Leadership Communication in Healthcare** 3 credits
This course expands communication skills as they apply to leadership roles in a variety of contexts within a healthcare environment. The focus of this course is on competencies for the healthcare leader to lead across boundaries, building coalitions, and intercultural competency. Students will work with each other and the facilitator to understand intercultural concerns for leadership and the impact of globalization on organizations and understand how important it is to know who you are working within the healthcare field. Students will incorporate advanced communication skills, for distinct organizations, as well as industry-wide impact during normal as well as crisis situations.

**OLHC 435X Healthcare Leadership Capstone.** 3 credits
This course builds on skills and competencies in the core leadership courses and healthcare leadership courses. The course is designed to apply different information gathering techniques, leadership competencies, and practices presented in previous coursework into the healthcare leadership arena. The course will use research to understand an organizational issue, problem or opportunity which will culminate in a case study research project on a healthcare organization.

**PHYSICAL SCIENCE (PHSC)**

**PHSC 201 and 201L. Introductory Physics I** 4 credits
This is a course intended for those students entering the Health Science or Scientific field, especially in the Pre-Professional or general science programs. This course treats most of the topics found in standard introductory physics texts. The areas of study fall under the headings of Mechanics, Thermodynamics, Vibrations and Waves. Specific topics are motion in one and two dimensions, forces, energy, momentum, collisions, rotational motion, solids/fluids, thermal processes, vibrations, sound Laboratory fee $15. Prerequisites: MATH 123. Taught fall semester.

**PHSC 202 and 202L. Introductory Physics II** 4 credits
This is a course intended for those students entering the Health Science field, specifically in the Pre-Professional or general science programs. This course treats most of the topics found
in standard introductory physics texts. The topics that are considered to be crucial include: Electricity, Magnetism, Light, Optics, Relativity, Quantum Physics, Atomic Physics, and Nuclear Physics. Prerequisite: MATH 123. Laboratory fee $15. Taught spring semester.

**POLITICAL SCIENCE (POLS)**

**POLS 101. American National Government** 3 credits
An introduction to the forms, functions, and processes of the American national government. As such, the course offers a broad overview of the American political system. The first portion of the course discusses the foundations of the American political system. The second section focuses on the politics and policies associated with the American system of government, and the final section of the course is concerned with the institutional arrangements that characterize American government.

**POLS 102. State and Local Government** 3 credits
A study of the development of state and local government, present political organization and interrelations, with special attention to the government of West Virginia. This course focuses on governmental forms used in our states and various units of local governments and emphasizes local political institutions and the relationship of citizens to them.

**POLS 200. Introduction to Public Policy** 3 credits
A study of the issues and problems currently facing Congress, the Presidency, and the Courts, including an introduction to the way public policy is determined through the use of analytical models.

**POLS 210. Comparative Government** 3 credits
This course is a comparative study of selected Western and non-Western political systems with special attention to state-society relations. The main goal of the course is to study different political systems with two objectives in mind. First, we want to better understand the different ways in which people are governed. Second, comparisons give us the reference points that we need to help us better understand politics and government. Perhaps just as importantly, we will examine how these governments have addressed various societal problems and study both their success and their failures.

**POLS 230. Introduction to Political Philosophy** 3 credits
This course provides an introduction to western political thought. Among the questions to be considered in the course are: What is the relationship between politics and truth? Do the ends justify the means in politics? What are natural rights? What is the relationship between economics and politics? What are the proper limits on government? Should government attempt to shape society and, if so, in what manner?

**POLS 240. Legislative Branch Politics** 3 credits
This course focuses on the legislative function of the American national government. The structure and function of Congress will be examined, as well as various theories on how policy is made within this branch. The relationship of the legislative process to other branches of government will also be considered.

**POLS 250. Executive Branch Politics** 3 credits
This course focuses on the executive function of the American national government. The structure and function of the Executive branch will be examined, as well as various theories on how policy is made within this branch. Also considered in this course will be the President’s responsibility for foreign policy and the associated bureaucratic agencies charged with implementing the President’s decisions related to this area of policymaking. The relationship of the executive branch to other branches of government will also be considered.
POLS 260. Judicial Branch Politics 3 credits
This course focuses on the judicial branch of the American national government. The structure and function of the judiciary will be examined, as well as various theories on how policy is made within this branch. Particular attention will be given to the courts and their relation to criminal justice. The relationship of the judiciary to other branches of government will also be considered.

POLS 270. Interest Group Politics 3 credits
This course focuses on outside actors who influence different levels of the American government. The structure and function of the interest groups are examined, as well as various theories on how policy is influenced by these actors. Particular attention is given to the lobbyists and the strategies they utilize in pursuing their preferred policies. The relationship of interest groups to other branches of government is also considered.

POLS 280. Debating Political Issues 3 credits
This course introduces students to the art of debate. Effectively researching and organizing ideas, presenting thoughts verbally, and listening critically are covered. Current political issues provide the topics debated within this course.

POLS 290. Ethical Dilemmas in Policy Making 3 credits
This course introduces students to some of the ethical dilemmas policymakers face in crafting policy. In addition, students will have the opportunity to think critically about the ways in which moral and political values come into play in the American policy process, particularly as they affect non-elected public officials who work in a world shaped by politics. Topics covered include the tensions between ethics and politics, an introduction to various moral theories that relate to contemporary policy debates, and the issues and dilemmas of professional ethics. The course takes an interdisciplinary approach, drawing on applied ethics, politics and public management for examining contemporary problems in public policy.

POLS 300. Political Science Research Methods 3 credits
This course introduces students to the philosophy and practice of political science research and examines the approaches that researchers use to understand political phenomenon. Students will learn and apply key concepts, including inductive and deductive reasoning, hypothesis construction, operationalization of concepts, measurement, sampling and probability, causal inference, and the logic of controls. In addition, students will gain experience utilizing the introductory tools necessary to prepare for graduate school, law school or applied research in the field.

POLS 314. Constitutional Law I 3 credits
This is the first of what is designed to be a two semester course in Constitutional Law. The focus will initially be on the structure, powers, and limitations of the judicial, executive, and legislative branches of the federal government. It will then examine the concept of federalism unique to the American experience. Finally, it will begin the transition to substantive due process rights which will be examined in detail in Constitutional Law II.

POLS 316. Constitutional Law II 3 credits
This is the second in what is designed to be a two semester course in Constitutional Law. The course will examine the varied interpretations of the Equal Protections Clause of the 14th Amendment. It will then analyze First Amendment jurisprudence as applied to freedom of expression and religious freedom. The course will then review of what may be the most debatable constitutional right of all – the right to privacy. Finally, it will close with the struggles of the United States Supreme Court to balance the arguably incompatible concepts of freedom and security. Although POLS 314 is not a mandatory
prerequisite for this course, students who have not taken POLS 314 will be at a substantial disadvantage.

**POLS 370. Moral Issues in Capitalism** 3 credits
An introduction to the philosophy of objectivism. The student will learn objectivist theory as well as contrasting theories of capitalism (cross listed as BUSI 370).

**POLS 400. Senior Thesis** 3 credits
This course is designed to demonstrate your accumulated training in Political Science in a single original project, subject to the instructor’s approval and under the additional supervision of a faculty mentor. The primary goal of the course is to facilitate student application of the knowledge and skills acquired in the program. Relevant skills include analysis, critical thinking, and integration of information, synthesis of ideas, presentation, and written communication. The course is structured as a seminar with a mixed format and requires significant self-direction and participation by students. 
*Prerequisite: POLS 300. Note that POLS 300 can be taken in the same semester as POLS 400 with instructor approval.*

**POLS 490. EAGLE Internship** 12 credits
The Political Science EAGLE (Engaged Adaptive Guided Learning Experience) internship program is available to junior or senior Political Science majors who have permission from the Program Coordinator. Students will complete a 40 hour per week, 15-week long internship for 12 hours of course credit. The EAGLE internship program is intended to provide students with an enhanced learning experience unavailable in the classroom.

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**PSYCHOLOGY (PSYC)**

**PSYC 101. Introduction to Psychology** 3 credits
A general introduction to psychology and its approaches to gathering and evaluating evidence about the causes and correlates of behavior. The topics surveyed will include brain and behavior, memory, perception, development across the lifespan, personality, abnormal behavior and psychotherapies. (Credit by Examination available.)

**PSYC 212. Life-Span Development** 3 credits
A coverage of physical, cognitive-intellectual, and social-personality development from infancy through old age as well as an introduction to research methods and different theories of developmental psychology.

**PSYC 315. Psychological Statistics** 3 credits
An intensive interpretation of experimental data in quantitative terms. Topics included are description by ranking and averaging, correlation, regression, probability, inference, t-tests, analysis of variance (ANOVA), Chi square and other nonparametric methods. Prerequisite: SSCI 203. Cross-listed as SSCI 315.

**PSYC 342. Social Psychology** 3 credits
A survey of the systematic study of social behavior. Interpersonal processes and behaviors related to social phenomena are emphasized by focusing upon such topics as attraction, social perception, aggression, conformity, group dynamics, persuasion, and attitude change.

**PSYC 343. Personality** 3 credits
A survey of current and traditional theories of personality. Various types of personality assessment are demonstrated and evaluated. Prerequisite: PSYC 101.
PSYC 350. Special Topics 3 credits
Presents coverage of special interest topics in psychology such as political psychology, sleep and dreaming, and industrial/organizational psychology.

PSYC 351. Human Sexuality 3 credits
This course provides an overview of human sexuality from biological, socio-emotional, and social-cultural perspectives. Areas covered include the biological basis of sexuality, sexual behavior, social issues, sexuality and the life cycle, and sexual problems. Special emphasis is given to the ethical and moral aspects of human sexuality.

PSYC 352. Cognitive Psychology 3 credits
This course provides an overview of human cognition, including such topics as attention, perception, pattern recognition, memory, language, problem solving, creativity, and decision making. The relevance of the study of human cognition to everyday experiences will be emphasized. Students will actively investigate their own cognitive processes through classroom demonstrations, simulations, and field observations.

PSYC 353. Physiological Psychology 3 credits
This course provides the student with an introduction to the study of brain and behavior. The role of the nervous system in movement, sensation, and perception will be covered. Research concerning brain processes involved in memory, attention, learning, and consciousness also will be included. A focus on emotion, stress, and psychopathology will provide the student with knowledge of cutting-edge topics in pathology and psychological disorders.

PSYC 354. Psychology and the Law 3 credits
This course explores the relationship between the fields of psychology and the law from the psychological perspective. The major areas of interface between the disciplines are explored, including the values of each discipline, crime and crime investigation, competency and insanity, the trial process, jury decision-making, and suggested reforms to the legal system. Additionally, students are expected to apply their knowledge in a trial reenactment, from jury selection to the rendering of a verdict.

PSYC 355. Advanced Social Psychology 3 credits
This course is intended as a follow-up to PSYC 342 – Social Psychology. It will provide in-depth review and discussion of topics first introduced in the previous class, including attribution, attitude formation and attitude change, social influence, interpersonal relationships, social biases, and pro-social behavior. It is intended that students will cultivate the skills of a competent psychology researcher. Prerequisite: PSYC 342.

PSYC 356. Terrorism 3 credits
This course explores the multifaceted topic of terrorism. Areas of discussion include the inherent difficulties in defining and identifying terrorism, root causes, including economic, political, religious, and psychological, of terrorism, the impact of terrorism on its victims and the terrorists, and intervention strategies. The role of the media on our perceptions and understanding of terrorism is addressed as a constant theme throughout the course.

PSYC 357. Psychological Aspects of Aging 3 credits
This course examines human aging from a psychological, social, and biological perspective. Topics include biological health, cognitive and mental health, personality, work/retirement, and social policy relevant to an aging population.

PSYC 358. Health Psychology 3 credits
This course examines how psychological, social, and biological factors interact with and affect health and illness. The impact of psychological stress on mental and physical health is examined in detail. Ways of coping with stress are also addressed.
PSYC 359. Advanced Developmental Psychology 3 credits
Students participate in an in-depth analysis of important developmental themes and current research in the field. The course focuses mainly on early development but may also include topics such as adolescence and aging. The course is designed for students who have already taken Lifespan Development and want to explore topics in more depth. Prerequisite: PSYC 212.

PSYC 360. Learning and Memory 3 credits
This course explores human and animal models of both classical and contemporary theories of learning and memory, including clinical applications. Relevant neuroscience research is also integrated into each topic. Students learn to creatively apply learning concepts to solve real problems.

PSYC 361. Introduction to Clinical Psychology 3 credits
An introduction to clinical psychology and therapeutic methods, including familiarization with current testing and assessment procedures. Prerequisite: PSYC 101.

PSYC 362. Abnormal Psychology 3 credits
A study of the diversity of psychological disorders ranging from stress-related disorders, emotional, affective, social, organic, and psychotic disorders. Coverage will include diagnosis and assessment techniques, theoretical perspectives on etiology and treatment, and consideration of individual and community-based psychotherapies.

PSYC 373. History of Systems and Theories in Psychology 3 credits
A comprehensive and historical coverage of systematic and theoretical psychology. The course is designed to provide the student with a basis for critical analysis of the major systems of psychological thought and the major psychological theories. A historical tracing of major schools, notable contributors, and major theories and perspectives will be provided as well as coverage of contemporary trends. Prerequisite: PSYC 101.

PSYC 441. Psychology BA Senior Capstone 3 credits
This is the capstone course for psychology B.A. majors. Topics to be covered include ethical considerations, the importance of reliability and validity to research, and seminal studies in psychology. Students will identify an area of interest in the field, complete a literature review and submit a formal APA style research paper. Prerequisites: PSYC 101, 315, SSCI 203, or permission of the instructor.

PSYC 451. Experimental Psychology 3 credits
Experimental design considerations for research studies are the focus of the course. Topic areas to be covered include: hypothesis formation, determination of independent and dependent variables, control in experimentation, and quasi-experimental designs. Each student will determine a research problem, complete a literature review and submit an APA style proposal. Prerequisites: PSYC 101, 315, SSCI 203.

PSYC 452. Thesis 3 credits
A continuation of PSYC 451. Topic areas to be covered include ethical considerations, single subject designs, data collection, internal and external validity. Upon approval of the proposed study submitted for PSYC 451, each student will conduct the experiment, analyze the data and submit the final thesis in APA format. Prerequisite: PSYC 451.

PSYC 495. Professional Semester 15 credits
An off-campus internship in public or professional agencies. Prerequisite: Junior or senior standing and permission of the Program Coordinator.
PSYC 498. Internship  1-4 credits
This off-campus internship program is available to advanced sophomore, junior or senior psychology majors who have permission from the discipline coordinator. Students will complete a minimum of 50 supervised contact hours per credit hour with a maximum of four course credits available. The internship is intended to provide career-related work experience. Additional requirements include keeping a journal (log) of experiences and completing a research paper on a topic approved by both the on-site supervisor and the discipline coordinator.

PSYC 499. Independent Study in Psychology  1-4 credits
Students will be individually supervised in a research or field experience. Prerequisite: Junior or senior standing and permission of the discipline coordinator.

RADIOLOGIC SCIENCE (RADI)

RADI 101. Introduction to Radiologic Science  2 credits
The course introduces beginning Radiologic Science students to the foundational concepts for their academic curriculum and professional careers. Concepts related to the development of the individual as a health care professional are examined through career exploration and the investigation of commonalities of the health professions. Students study the historical development of Radiologic Science, legal and ethical concepts, credentialing, interdisciplinary collaboration and networking, impacting legislation and individual accountability. Students are encouraged to work independently and in small groups to achieve the desired competencies and develop first-level competencies in communication, team-building, critical thinking, and research. Students will be expected to demonstrate the ability to use word processing and to develop a power point presentation.

RADI 102. Radiation Physics  3 credits
This course will provide the student with a knowledge of basic physics including selected topics in units of measurement, atomic physics, electricity, magnetism, x-ray production, electrical circuits and x-ray circuits.

RADI 201. Radiographic Positioning, I  3 credits
This course is designed to acquaint the student with the basic body positions used in radiography. This includes anatomy, positioning nomenclature and anatomical landmarks. This didactic course work is integrated into the clinical setting.

RADI 201L. Clinical Lab I  3 credits
This is the first in a series of clinical courses that will provide the student with the necessary clinical education to become competent in the medical imaging field. The student will become familiar with the basic equipment within the assigned clinic, and shall begin to master skills necessary to function in the medical imaging departments. This unit is designed to provide the student with the opportunity to achieve knowledge and skill necessary to perform standard radiographic procedures with concentration in chest, abdomen, and extremities. A module in Radiation Safety will be included as part of RADI 201L.

RADI 202. Osteology  3 credits
This course is designed to give the student an in-depth knowledge of the human skeletal system with a specific emphasis to the field of radiology. This class focuses on anatomical terminology, units of body structure, a comprehensive review of the joints of the body, and the bones composing the appendicular skeleton and the axial skeleton.
RADI 210. Radiographic Processing 1 credit
This course is an introductory course that will provide the student with the basic information on how to process digital images. Requirements for the processing area will be identified; Historical processing methods, image receptors, digital imaging systems, artifacts and picture archiving systems will be discussed. Processing procedures and artifacts will be described. Prerequisites: RADI 201, 201L, 202.

RADI 211. Radiographic Positioning II 3 credits
This course is designed to provide the student with the knowledge and skill necessary to perform standard radiographic procedures with concentration in fluoroscopic exam, spine, headwork procedures, and bony thorax. Consideration will be given to the production of radiographs of optimal diagnostic quality. Radiograph evaluation will include critiquing for contrast/gray scale, density/brightness, detail, and positioning. Laboratory experience will be used to complement the classroom portion of the course. The course is a continuation of RADI 201 and is available only to students who are enrolled in or have successfully completed RADI 201.

RADI 211L Clinical Lab II 3 credits
This is the second in a series of clinical courses that will provide the student with the necessary clinical education to become competent in the medical imaging field. All the courses in this series take place in the assigned clinical areas, and the student will continually be exposed to actual patient handling and care. The student will continue to master basic skills necessary toward becoming a competent radiographer. The student will also continue to master basic radiographic procedures on which he/she has proven competent. The student will have the opportunity to achieve knowledge and skill necessary to perform standard procedures with concentration in chest/abdomen, extremity, fluoroscopic, bony thorax, spine, and headwork procedures. The hours spent in the clinical lab will be divided among day and evening rotations. Prerequisites: RADI 201, 201L, 202.

RADI 212. Radiographic Exposure 3 credits
This course discusses the construction and operation of radiographic tubes, property and production of x-rays, and factors affecting the quality of a radiograph. The class information includes production of radiation and reaction with matter. Radiographic contrast/gray scale, density/brightness, and detail will be emphasized. Prerequisites: RADI 201, 201L, 202.

RADI 301. Radiographic Positioning III 3 credits
Advanced positioning of the patient including discussion of special procedures and the equipment used during the advanced procedures will be covered. Study of the position of major blood vessels, structures, and organs of the head, neck, thorax, abdomen, and pelvis. Venipuncture and contrast media injection lecture and lab will be emphasized. Prerequisites: RADI 211, 211L.

RADI 301L. Clinical Lab III 6 credits
The third in a series of clinical courses that will provide the student with the opportunity to gain competence in clinical education in the art and science of radiography. The student shall continue to expand knowledge and skills in obtaining health histories for patient of all ages. The student shall perform vital signs and practice physical assessments during contrast media procedures. The student shall continue to practice patient education skills and continue developing sensitivity to patient’s needs. This course will clinically integrate headwork and advanced procedure examinations. The student shall continue to demonstrate the skills required to assess patient condition and then formulate techniques and position routine radiologic examinations under direct or indirect supervision of a registered radiographer,
depending on his/her level of competency. The hours spent in clinical lab will be divided among day and evening rotations. Prerequisites: RADI 211, 211L.

**RADI 302. Cross Sectional Anatomy** 1 credit
This course is designed to include regional anatomy in coronal, sagittal, and axial images, oblique sections, and three-dimensional reconstruction with emphasis and applications toward medical imaging such as Computed Tomography, Magnetic Resonance Imaging, and Diagnostic Sonography. Prerequisites: RADI 211, 211L.

**RADI 304. Imaging Equipment** 3 credits
This course will provide the student with knowledge of equipment routinely utilized to produce diagnostic images. Much of the course focus is x-ray circuitry and fluoroscopic equipment. Also included is mobile and digital equipment. Various recording media and techniques are discussed. Prerequisites: RADI 301, 301L, 311.

**RADI 311. Radiology Pathology** 2 credits
A study of the various diseases and recognition between bacterial and viral organisms will be covered. The student will also recognize conditions of illness involving the different systems of the body and the pathological effects of radiographs Prerequisites: RADI 211, 211L.

**RADI 311L. Clinical Lab IV** 6 credits
The fourth in a series of clinical courses that will provide the student with the opportunity to gain competence in clinical education in the art and science of radiography. The student shall continue to expand knowledge and skills in obtaining health histories for patient of all ages. Clinical experience will be gained under the direct and indirect supervision of accredited professionals. Students will have opportunities to perform procedures on more critically ill patients and continue to practice physical assessment skills. Students will learn to adapt routine positioning and technique procedures determined by patient condition. Pharmacology will be delivered 1 hour each week as part of RADI 311L. The student will perform venipuncture competency during this clinical course. Clinical experience will be scheduled during both daytime and evening shift hours. Prerequisites: RADI 301, 301L.

**RADI 320/320L. Cardio-Vascular Imaging** 3 credits
RADI students will gain knowledge of the history, equipment, principles, imaging procedures, disease pathologies, patient care, and contrast media relative to CVIT. Lab experience will also be gained to prepare the learner for application in the clinical area. Prerequisite: consent of the instructor.

**RADI 321/321L. Computed Tomography Imaging** 3 credits
RADI students who selected Computed Tomography (CT), as their choice of modality, will gain knowledge of the history, equipment, principles, imaging procedures, disease pathologies, patient care, and contrast media relative to CT. Prerequisite: consent of the instructor.

**RADI 322/322L. Mammography** 2 credits
This course is designed to provide mammography education to students enrolled in the Radiologic Science Program and/or to registered radiologic technologists who desire to continue their education in an area of advanced specialization. The course content will encompass a sequential and complete mammographic study to include: history, breast anatomy, physiology, and pathology, equipment and application of technique, breast positioning, intervention procedures, quality control, and patient relations. The clinical education component of the mammography modality is not included in this course. Radiographers who can document clinical experience may be exempt from the clinical component. Prerequisite: consent of the instructor.
RADI 323/323L. Magnetic Resonance Imaging  3 credits
Students will gain knowledge of patient care, imaging procedures, data acquisition and processing and physical principles of image formation relative to Magnetic Resonance Imaging. Prerequisite: consent of the instructor.

RADI 401L. Clinical Lab V  5 credits
The fifth in a series of clinical courses that will provide the student with the opportunity to gain competence in clinical education in the art and science of radiography. The student shall continue to expand knowledge and skills in obtaining quality images and providing quality patient care in all areas. The first phase of graduate competencies will be conducted during this unit. Prerequisites: RADI 311, 311L.

RADI 403. Radiology Quality Management  2 credits
A comprehensive study of equipment used in establishing a quality assurance program in diagnostic medical imaging departments will be presented. Patient quality assurance will also be covered. A laboratory session will be scheduled for the student to develop an overall quality assurance program for this course. Students will also complete their research projects in this course. Prerequisites: RADI 311, 311L.

RADI 405. Radiation Biology / Advanced Radiation Protection  2 credits
Focus on understanding the effects of ionizing radiation in the biologic systems with the public right to minimal radiation exposure. Discussion on genetic and somatic radiation effects including radiation syndromes and radiation oncology will be presented. Prerequisites: RADI 311, 311L.

RADI 410. Radiologic Science Senior Seminar  2 credits
The course will integrate all didactic and clinical knowledge obtained during the entire Radiologic Science Program. It will serve as an evaluation and assessment of the student’s progress and readiness to write the ARRT Registry Examination following graduation. Prerequisites: All RADI courses up to the final spring semester.

RADI 411L. Clinical Lab VI  5 credits
A final clinical rotation to evaluate competency levels of students preparing to become registered radiographers. Students will be given the opportunity to complete any remaining clinical objectives and competencies within the framework of this unit. The student may rotate through each of the five clinical education centers and be scheduled on both day and evening shifts. Prerequisites: RADI 401L.

RADI 420L-423L. Specialization Clinical Lab  3 credits
This is the clinical education component of the professional specialization courses. Students will be given an opportunity to perform examinations in their respective imaging modalities at one or more of the program’s hospital affiliates. Specialties areas included: RADI 420L, CV; 421L, CT; 422L, Mammography; 423L, MRI; 424L US. Prerequisites: Consent of the Department Chair.

RADI 498. Clinical Internship  1-6 credits
This course is designed and arranged to meet the individual academic needs of each upper level student. It allows students the opportunity to continue practicing the skills and knowledge previously learned in the clinical setting in each respective imaging modality and provides the opportunity for competency achievement for the ARRT modality exams. Rotations during this internship may include diagnostic imaging, CT, CV, mammography, US, or MRI. Prerequisites: Consent of the Department Chair or Clinical Coordinator required.
RADIOLOGIC TECHNOLOGY (RADT)

RADT 101. Imaging Procedure I  2 credits
Presents knowledge base necessary for performing diagnostic studies of the chest, abdomen, and upper and lower extremities. Co-requisites: MATH 120, BIOL 212, 212L, HSCI 105, RADT 101L, 107, 107L.

RADT 101L. Imaging Procedures Lab I  2 Credits
In conjunction with 101, provides hands-on demonstration and positioning using the on-campus energized lab. Review of radiographs for pertinent anatomic structures as well as for diagnostic quality. Radiographic analysis includes positioning, technique, and problem resolution. Co-requisites: MATH 120, BIOL 212, 212L, HSCI 105, RADT 101, 107, 107L.

RADT 107. Introduction to Radiology and Patient Care  1 Credit
Introduction to the clinical program and the health care delivery system; covers various aspects of the hospital organization, the department of radiology, and medical ethics and law. Includes transfer techniques, proper body mechanics, and standard precautions. Co-requisites: MATH 120, BIOL 212, 212L, HSCI 105, RADT 101, 101L, 107L.

RADT 107L. Introduction to Radiology and Patient Care Laboratory  1 Credit

RADT 108. Radiologic Clinical I  2 Credits

RADT 111. Imaging Procedures II  2 Credits

RADT 111L. Imaging Procedures Lab II  2 Credits
Provides hands-on demonstration and positioning using the on-campus energized lab. Review of radiographs for pertinent anatomic structures as well as for diagnostic quality. Radiographic analysis includes positioning, technique, and problem resolution. Prerequisites: MATH 120, BIOL 212, 212L, HSCI 105, RADT 101, 101L, 107, 107L. Co-requisites: HUMN 110, COMM 101, RADT 108, 111, 115, 125.

RADT 115. Radiographic Physics I  3 Credits
Examination of the beginning concepts of the physics behind the production of ionizing radiation including the fundamentals of technical mathematics and electromagnetism. X-ray generating equipment, principles of operation, and beginning contrast and density are also included. Prerequisites: MATH 120, BIOL 212, 212L, HSCI 105, RADT 101, 101L, 107, 107L. Co-requisites: HUMN 110, COMM 101, RADT 108, 111, 111L, 125.

RADT 118. Radiologic Clinical II  1 Credit
Second course in clinical series. Incorporates practical experience in a variety of hospital clinical settings. Addresses patient care principles, radiographic positioning, film critique, radiation protection and principles of exposure using a competency-based approach. Students observe and participate in radiographic examinations by applying knowledge
RADT 125. Radiologic Physics II  3 Credits

RADT 128. Radiologic Clinical III  1 Credit

RADT 201. Imaging Procedures III  2 Credits

RADT 201L. Imaging Procedures III Lab  2 Credits

RADT 203. Image Acquisition  3 Credits

RADT 204. Radiobiology/Radiation Protection  2 Credits
Studies the effects of ionizing radiation on the body at the molecular, cellular, tissue, and organ levels. Includes genetic and somatic effects as well as degrees of acute radiation lethality. Encompasses principles of protection for both patient and personnel, including health and safety regulations in such areas as protective equipment and personnel and area monitoring. Prerequisites: MATH 120, BIOL 212, 212L, HSCI 105, HUMN 110, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201, 201L, 203, 205, 208, 210.

RADT 205. Computers in Radiologic Sciences  1 Credit
Introduces computer software related to the radiologic sciences, including HIS, RIS, and PACS systems. Prerequisites: MATH 120, BIOL 212, 212L, HSCI 105, HUMN 110,

RADT 206. Quality Assurance 1 Credit

RADT 208. Radiologic Clinical IV 3 Credits

RADT 210. Radiologic Pharmacology and Drug Administration 2 Credits
Introduces basic pharmacological concepts including pharmokinetics, pharmodynamics, contrast administration, venipuncture, and overall patient care during these processes and procedures. Prerequisites: MATH 120, BIOL 212, 212L, HSCI 105, HUMN 110, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 201, 201L, 203, 204, 205, 206, 210, 208.

RADT 217. Radiographic Pathology 2 Credits

RADT 218. Radiologic Clinical V 3 Credits

RADT 229. Advanced Imaging 1 Credit

RADT 230. Capstone Seminar 6 Credits
Generalized review of all radiologic theory taught in prior courses and extensive practice testing in final preparation for the American Registry of Radiologic Technologists.
SSCI 104. Social Issues: The Status of Women 3 credits
This course will explore the status of women, in the United States and internationally, and attempt to explain how we arrived at current relative status. The course will examine social institutions in the attempt to best understand how women (and men) are socialized in to the roles that they currently hold. The course will examine historical and modern contexts of gender status. Topically, there will include a historical overview as well as exploration into such modern social problems as female body image, sexual harassment, the me too campaign, the national women’s march, and beyond.

SSCI 105. Issues in Social Science 3 credits
This is a general course offered as part of the Initial College Experience (FYE) program. This course provides students with skills and knowledge needed to successfully meet Citizenship outcomes at the foundational level. In particular, the community will focus on the social, political and economic structures of American society. Significant social problems and political issues will be addressed. The community will help students develop communication, critical thinking, and research skills necessary for college success and participatory citizenship.

SSCI 106. Social Science Issues in Appalachia 3 credits
This course provides students with the foundational skills and the knowledge needed to successfully meet the Citizenship Outcome with critical thinking, communication, and research skills necessary for college success. In particular, this course will focus on the social, political, family, religious, and economic structures of Appalachian society from the first settlers through the development of an economy based on extractive industries. This course will also look at such issues as changes in Appalachian culture, poverty, racial and gender discrimination, citizen discontent with the American political system, and mechanisms of social change.

SSCI 108. Debating the Issues: Political Topics 3 credits
This course provides an introduction to the Social Sciences through consideration of various political “hot” topics. It also satisfies the general Social Science FYE requirement, and students have the opportunity to satisfy COMM 101, COMM 102, or mid-level writing requirements.

SSCI 109. Genocide in the Modern World 3 credits
An introduction to the Social Sciences through a case study of the Western experience with genocide from Armenia to Bosnia. This course satisfies the general Social Science FYE requirement, and students have the opportunity to satisfy either COMM 101, COMM 102, or mid-level writing requirements.

SSCI 110. Cross-Cultural Seminar 1 credit
This course addresses the influence of culture on perception, attitudes, thought patterns, values and beliefs. It examines the challenges and conflicts that can occur when individuals must communicate and interact in cross-cultural situations. This course is offered fall semester only and is required of all international students entering the United States for the first time.
SSCI 111- Sex, Gender, and Politics  
This course focuses on understanding gender in terms of each of the social institutions: educational, political, family, religious, and economic. Students will examine gender as a social structure that shapes institutional inequalities and everyday interactions in society.

SSCI 112. Cross-Cultural Studies  
This course is designed to create an understanding of how concepts are viewed from different cultural perspectives while increasing cultural knowledge, international competence, and cultural sensitivity. Students will delve into the roots of cultural differences in order to understand their culture/subculture as well as learn to appreciate cultural differences on a global perspective. As an experiential-based course, students will be required to complete individuals as well as group projects.

SSCI 114. Sociology of Sport  
This course is designed to explore the structure of social institutions through an in-depth study of the sociology of sport. Topics within the course will include the impact of sport on culture, socialization and sport, high school and college sports, deviance in sports, economics of sport, and issues around gender, race, and ethnicity in sports. I think this would be of interest to students and hopefully be an intriguing context to teach socialization and acculturation as well as generalized systems theory.

SSCI 201. Introduction to Social Sciences  
An introduction to social science disciplines and methods with particular emphasis given to the operation of American society. The elements of human culture, socialization processes, and social, political and economic institutions will be included.

SSCI 202. Contemporary Social Problems  
An experiential course in applied Social Science which focuses on selected contemporary problems. Community resource people and field trips broaden and enrich the study of each problem, and a practicum or work experience in a related social agency of the student’s choice is required.

SSCI 203. Methods for the Behavioral Sciences  
An introduction to the basic techniques used by social scientists to study and analyze social phenomena. The course focuses primarily on research design, but also includes an introduction to descriptive statistics.

SSCI 204. Methods for the Social Sciences  
A modular-based introduction to techniques and methods used in the social sciences. The first two modules focus on questions of hypothesis testing, research design and basic descriptive statistics. Module three is discipline specific dealing with the unique methodologies of History or Public Policy.

SSCI 221. Information and Research Strategies  
The course begins with an introduction to basic library information skills and progresses in a modular format to include skills necessary for searching electronic databases, print resources, and the internet, and for critically evaluating information sources and identifying ethical and legal issues in the online environment.

SSCI 300. Women’s Studies  
An interdisciplinary introductory study of the roles, functions and consciousness of women in present day society.
SSCI 310. West Virginia and the Appalachian Region 3 credits
The course examines the social, political and economic development as well as the geology of West Virginia in a broad historical context. The course includes a study of West Virginia state government and the broader Appalachian region.

SSCI 315. Statistics for the Social Sciences 3 credits
An intensive interpretation of experimental data in quantitative terms. Topics include ranking and averaging, linear correlation, regression, probability, inference, t-tests, analysis of variance (ANOVA), Chi square and other nonparametric methods. Prerequisite: SSCI 203. Cross-listed as PSYC 315.

SSCI 320. Computer Assisted Research in the Social Sciences 3 credits
Students are instructed in the use of the Statistical Package for the Social Sciences software (SPSS) to analyze and evaluate data from survey and experimental investigations. Prerequisites: SSCI 203, SSCI 315 or PSYC 315, permission of instructor.

SSCI 350. Topics in Social Sciences 1-3 credits
The course will include topics devoted to the study of interdisciplinary subjects within the social sciences.

SSCI 400. Seminar in Social Science 3 credits
A course designed to provide senior students a capstone opportunity for independent research and investigation in Public Policy, History and Experimental Psychology. Psychology students enroll in PSYC 452. Prerequisites: Completion of required courses appropriate to the major.

SOCIOLOGY (SOCI)

SOCI 221. Juvenile Delinquency and Criminology 3 credits
A study of the causes of delinquency and crime. Attention is given to agencies dealing with delinquents and crime, as well as methods of rehabilitation and penal institutions.

SOCI 322. Marriage and Family Relationships 3 credits
A comparative study of marriage and the family with particular attention to the influence on the family of current social and economic conditions. Discussions of courtship, marriage, and problems of divorce will be included.

SPEECH (SPCH)

SPCH 103. Oral Communication Fundamentals 3 credits
Students demonstrate proficiency in everyday communication including interpersonal communication, group problem solving, and impromptu, informative and persuasive speaking. Organization of ideas and control of mind and body are stressed in varied speaking projects.

SPORT BUSINESS

SPBU 101. Introduction to Sport Business 3 credits
Students in 101 will have an opportunity to gain an overview of sport business through a basic introduction into the conduct and administration of many different sport areas. It is designed to offer students an insight to the career opportunities available in sport business and start their development toward a sport business career that meets their aptitude and interest. Topics of discussion will include overviews of interscholastic, intercollegiate and professional sport programs, international sport, sponsorship, event management,
marketing, facility management and broadcasting/communications within the sport industry. This course is offered each fall and spring semester.

**SPBU 201. History of American Sport** 3 credits
The content of this class will focus on the development of sport in American Society from the colonial period to the present. Students will examine topics such as: race, social class, gender, economics, education, and mass media and how each topic relates to the historical perspective of sport in America. Students will learn how the history of sport has led American society to its current state of sport development. Prerequisites: SPBU 101. This is a sport business elective class.

**SPBU 202. International Sport** 3 credits
In this class, students will gain a global perspective of the sport industry. Students will explore the role of politics, culture, social practices and class on sport practices internationally. The geographic distribution of sports and the popularity of different sports around the world will also be discussed. Sport business specific study abroad trips will be offered in some years. Prerequisites: SPBU 101. This is a sport business elective class.

**SPBU 220. Coaching Theory** 3 credits
Students will be offered a theoretical and practical introduction to coaching theory. The content of the course will focus on the theory of coaching and developing methods of application in the practical setting. Class material will focus on tools needed to discover and apply coaching styles to develop a personal coaching philosophy. Topics will include leadership, creating a culture, team building, program management, scheduling, recruiting and fundraising. Prerequisites: SPBU 101. This is a sport business elective class.

**SPBU 225. Sport Media/Information** 3 credits
Students in Sport Media will be provided an overview of the media’s role in sport. Topics include marketing, media, promotion, public relations, press releases and the influence of media coverage. Emphasis will be on sport reporting, writing, and media sports on radio, TV, Internet and print media. Sport coverage will be explored at the high school, college and professional levels. Additional emphasis will be placed on sport’s statistics. Prerequisites: SPBU 101, COMM 101, 102, 103. This course is offered each spring semester.

**SPBU 250. Sport and Society** 3 credits
Students in this course will study the role of sport in our society and social issues as they apply to sport and life. Students will critically examine sociological issues and controversies surrounding sport and their relationship to business managers in sport organizations. Topics will include an introduction to sport and society, sociological theories, youth sports, deviance, violence, gender, ethnicity, social class, the economy, religion, politics, gay/lesbian issues, education and the media. Prerequisite SPBU 101. This course is offered every fall semester.

**SPBU 298. Practicum Experience** 1-3 credits
This practical opportunity is an introductory field experience in sport business. The practicum experience is designed to expose students to a wide variety of concentrations or specializations in the field such as marketing, sales, ticketing, sponsorship, facility management, advertising and public relations. The course will allow the student to explore career options in a practical work setting. Students may receive 1-3 hours of academic credit for this course depending on the number of practicum hours worked by the student. Students must work 40 practicum hours for each hour of academic credit desired. This course is repeatable twice, so a student may get credit for a maximum of three (3) credits for the course. All practicum experience site proposals must be pre-
approved by the program coordinator. Prerequisite: SPBU 101. This course is offered each fall, spring and summer semesters.

**SPBU 301. Sport Sales/Marketing** 3 credits
The purpose of this course is to analyze marketing, promotions and fund-raising principles, techniques and strategies as they relate to athletics and the sport industry. Students will also study sales and sponsorship in sports. Personal selling techniques, customer service, and basic principles of sport sponsorship will also be addressed. Students will develop a marketing plan and perform a formal presentation of that proposal. Prerequisites: SPBU 101, MRKT 321. This course is offered each spring semester.

**SPBU 310. Recreation/Fitness Management** 3 credits
The content of this course is designed to examine the management principles associated with Recreation and Fitness Management. SPBU 310 will focus on theories of recreational and fitness management and develop methods of application in the practical setting. Topics will include fitness operations, intramurals and extramurals, human resource management, tournament design, outdoor recreation, branding and event operations. Prerequisite SPBU 101. This course is offered each fall semester.

**SPBU 320. Facility/Event Management** 3 credits
Students will be offered a theoretical and practical introduction to sport facility and event management. The course will focus on the theory of facility and event management and develop methods of application in the practical setting. The students will develop, organize and run a major event in the community. Class material will focus on tools needed to run an event. Topics will include planning and design, facility management, risk management, marketing, advertising, public relations and event operations. Prerequisite SPBU 101, SPBU 310. This course is offered each spring semester.

**SPBU 390. Junior Seminar** 1 credit
Junior Seminar allows students an opportunity to explore the areas of the sport industry in which they may want to pursue a career. It also offers the students time, resources and opportunity to secure an internship. Students will research internships, contact organizations and essentially take the first step to starting their professional careers. Networking is emphasized as a method to gain entrance into sport organizations. Students will share their contacts with others in the classroom through seminar discussions and individual presentations. Professionalism will be expected in creating cover letters and resumes, developing interview skills and producing follow up materials. Prerequisites: Junior standing and approval of program director. Junior seminar is offered every fall and spring semesters.

**SPBU 435 Sport Ethics** 3 credits
Ethics and morality in the management of sport will be examined in 435. The content of the course will focus on understanding ethical theories and critical thinking guidelines and using them as a basis for making sound managerial decisions. Ethical decision making will be discussed in relation to increased productivity, enhanced public relations and an increase in long term profitability. Topics will include an introduction to ethical and moral issues, ethical theories, personal ethics, professional ethics, codes of ethics, ethical decision making, ethics in marketing operations and ethical human resource management. Students will be actively involved in the ethical decision-making process in the classroom. Prerequisite: SPBU 101 and senior standing. Sport Ethics is offered each spring semester.
SPBU 460. Sport Law
The content of 460 covers various amateur sport law issues and will focus on negligence, risk management and criminal acts in recreation and sport business. Topics to be discussed are the legal system, legal research, negligence, liability, waivers, emergency care, criminal liability, fiduciary duty, hazing, risk and crowd management, contracts, Title IX, drug testing, antitrust law and trademark law. Prerequisite: SPBU 101 and senior standing. Sport Law is offered each fall semester.

SPBU 498. Internship in Sport Business 3 credits
SPBU 499. Internship in Sport Business 12 credits
The internship experience is designed to place the student in the field with a capable supervisor for the purpose of gaining work experience and exposure to techniques, methodologies, and procedures utilized in the sport industry work place. The student is evaluated on the quality and timely submission of task and responsibility logs, written assignments, the major project, self-evaluation of the experience and an evaluation from the site supervisor. Prerequisites: 108 credit hours, all other required SPBU and Business courses for graduation and permission of the program coordinator. Students must have an overall GPA of at least 2.5 to be eligible for the 12-credit internship. Students who choose the 3-credit option for internship will also have to complete 9 credits of upper level (300-400 level) business courses in their final semester. This course is offered each fall, spring and summer semesters.

STATISTICS (STAT)

STAT 101 Introduction to Statistics 4 credits
The course covers the basic principles of descriptive and inferential statistics: topics to be covered include descriptive statistics for various data types, normal and other distributions, their properties and uses, hypothesis testing, linear correlation and regression. Prerequisite: MATH 121; background in Excel is very helpful since Excel, R or Python will be used for all homework assignments.

STAT 120 Introduction to Probability for Data Science 3 credits
The course covers the principles of probability theory and its role in statistical inference with emphases on big data. Topics include inferential methods for populations using samples, point and interval estimation, and formulation and testing of hypotheses. Prerequisite: a grade of C or better in STAT 101

UNIVERSITY COURSES (UNIV)

UNIV 100. Health and Wellness (Online) 2 credits
Health and Wellness is a web-based course providing an introduction to principles and practices of wellness, hygiene, physical fitness, and responsible behavior. The learner explores aspects of personal conduct and views on physical health, relationships, sexuality, alcohol and drug use, and other health-related topics. Educational experiences provide the student an opportunity to acquire knowledge and skills needed for making informed personal choices. Learners have the opportunity to demonstrate competencies in communication and critical thinking. The course is offered during the second eight-week session of the fall and spring semester.
UNIV 101. Orientation to University 1 credit
This course is designed to foster a meaningful, professional relationship between the student and for his or her faculty mentor. During the semester the student will develop and implement a meaningful Master Academic Plan (MAP) compatible with his or her life goals; discover the importance of assuming responsibility for his or her role in the educational process; receive guidance on curricular and professional choices focused that will enhance personal and professional development, and identify and learn to access University resources and support structures designed to enhance academic and professional success.

UNIV 102. The University Experience 2 credits
A continuation of UNIV 101, this course strengthens the mentor/student relationship while providing structured opportunities for students to complete beginning level work toward completion of selected Liberal Learning Outcomes.

UNIV 203. University Transition 3 credits
A course designed specifically for sophomore and junior level transfer students. The course will introduce new students to the institution’s Liberal Learning Outcomes requirements while providing the opportunities or transfer students to complete any missing, foundational requirements. Students will utilize assignments provided by the instructors of this and other courses to demonstrate knowledge of the institution’s graduation requirements.

UNIV 459. Senior Capstone 3 credits
This course offers students the opportunity to synthesize liberal learning outcomes, outcomes in the major field of study and co-curricular learning. The course provides for an overall (summative) assessment of students’ learning and experience in the University curriculum. Topics for capstone courses may include issues relating to science and society, analysis of diverse cultures and traditions, multidisciplinary approaches to a single problem, or the analysis of a single issue across national, cultural, or disciplinary lines. The Senior Capstone deals with ethical and substantive issues, problems and themes that affect the world community. Pre-requisites – demonstration of achievement of mid-level requirements in Citizenship, Communication, Creativity, Critical Thinking, Ethical Practice, and Science. Included in the course will be substantial graded projects incorporating research. Prerequisites: UNIV 112, COMM 101, COMM 102, SPCH 103

UNIV 460. Social Problems in Appalachia Senior Capstone 3 credits
The Social Problems in Appalachia course supports students in exploring advanced application of Communication, Critical Thinking, and Ethical Practice in investigating and dissecting a variety of social problems specific to the Appalachian region. To this end, students will explore Appalachian culture, Appalachian demography, Appalachian representation, the economics of the region, social issues such as the addiction epidemic, changing family structure, joblessness, environmental concerns, among many others. Content for the course includes articles, guest speakers, field trips, and text. Students demonstrate their relative academic fitness by exploring said issues via critical review, feedback/experiential essay responses, a teaching demonstration, and social problem documentary presentation. Finally, students will be required to explore the course content through the lens of their major course of study, the philosophies support by the University Mission, the Liberal Learning Outcome holistic curricula, and their overall collegiate experience. Prerequisites: UNIV 112, COMM 101, COMM 102, SPCH 103
GRADUATE COURSE LISTINGS

MASTER OF SCIENCE IN CYBERSECURITY (CYBR)

CYBR 610. Cyber Operations Management 3 credits
The Cyber Operations Management course evaluates the current doctrine and planning procedures for strategies, policies, and case study reviews to successfully engineer, operate, and manage networks from small to global scale to protect from data theft, malware, intrusion attempts, and data leakage. This course will cover security operational design of the top level architecture security suite, internal network monitoring, data security, user training, and strategic best practices. The Cyber Operations Management course is further designed to provide a synthesis of root cause analysis of an intrusion from log review to real time analysis of an attack, as well as conduct in-house vulnerability assessments utilizing multiple network security resources. Students will demonstrate program management skills by building a program level plan consisting of security related projects that assess the design, implementation, and sustainment of a network security architecture utilizing “defence-in-depth.

CYBR 615. Strategic Cyber Intelligence 3 credits
This course provides a comprehensive study of strategic cyber intelligence and organizational security. A focus on the strategic impact of audit and security requirements on the design and implementation of cybersecurity will be reviewed. Cyber warfare, both offensive and defensive, and their effects on critical infrastructure will also be a primary focus. Course topics include strategic planning, espionage, cyber threats, counterintelligence, cyber warfare, cybersecurity issues, nation and non-nation states, systems recovery and disaster planning.

CYBR 620. Legal Issues in Cybersecurity 3 credits
This course will review policy and legal concepts relating to Cybersecurity and information management. It will examine laws, authorities, and the responsibilities of government and private sector to protect data and privacy in the cyber domain. The course will provide the learner with the history and evolution of cyber laws and an analysis of terminology. The student will examine the ethical considerations of surveillance, cyber laws and policies. The student will learn the limitations of security policies and laws, and the impact territorial boundaries have on the applications of legislation. Students will apply guidelines for effective testimony and reporting through practical assignments.

CYBR 625. Cyber Psychology 3 credits
This course provides students with an appreciation for and understanding of the psychological processes that impact information and security. The course objectives stress three major topics: (1) the mindset and motivation of a hacker; (2) similarities and differences between the types of hackers-white, black and gray; and (3) technology and humans in terms of how human interaction affects cybersecurity. Research and activities in the course include a study of human interactions with emerging technologies to include cloud, mobile computing, social media, virtual reality, blogs, digital media and any other technology, which have demonstrated an ability to alter human behavior.

CYBR 630. Offensive and Defensive Strategies 3 credits
The course focuses on offensive and defensive cyber capabilities. The purpose of the course is to synthesize organizations’ recognition of the need to operate on the offense to prevent and detect cyber-attacks. Further, the study looks at their ability to deploy offensive tactics such as prevention and counter measures to protect their organizations.
This course also provides students with the opportunity to explore and examine emerging trends and technology in cybersecurity. The course prepares students to defend enterprise networks from web based and internal attacks using techniques such as system hardening, encryption, and policy enforcement and software/hardware intrusion detection systems to protect enterprise data assets.

**CYBR 635. Security and Information Data Analytics** 3 credits
Introduction to analytical software including data mining, statistical software, and analytical models are developed. The application of strategic analytics for predictive, trending, forecasting, intrusion, and prevention models of information management losses are proposed. Planning and resolution of common and ad-hoc security threats, within private and public organizations, are reviewed to secure data and the management of information through detection and preventive techniques.

**CYBR 640. Strategic Investments in Information Security** 3 credits
Various strategic financial models for the buy vs. build of security and information decision(s) is reviewed. Methods and techniques for fraud prevention, including operational risk assessment, fraud controls, data security, and compliance best practices and regulatory requirements are reviewed. Performance management processes, and information security program evaluations are analyzed in the context of building a portfolio of information technology investments.

**CYBR 645. Enterprise Infrastructure Planning & Safeguarding** 3 credits
An overview of strategic planning and safeguarding of enterprise level infrastructure is reviewed. Advanced planning methodologies are developed to adopt, implement, and manage technological ecosystems including software, hardware, networks, applications, data, communications, and other relevant infrastructure. Principles of privacy, security, organizational vs. customer owned data, and issues related to protection are analysed within public and private organizations.

**CYBR 650. Cybersecurity Policy Implementation** 3 credits
This course is designed to provide the knowledge and skills necessary to implement effective cybersecurity policy. The course investigates US domestic and foreign cybersecurity policy and how it affects cybercrime in the US. Main aspects of implementation covered in class will involve methods and guidelines for delivering cyber-security policy. The course addresses prototypical organizational goals in managing the development, maintenance, and replacement of cybersecurity policy. Students will engage in the use of the bottom up, top down, and the synthesis approach in implementing cybersecurity policy. The different arms of the government and how they approach cybersecurity implementation is also addressed.

**CYBR 660. Capstone: Practical Applications in Security** 3 credits
This capstone course integrates cybersecurity strategy, program management, leadership, and technological concepts. Graduate students will demonstrate the ability to effectively strategize, implement and sustain a Defense in Depth cybersecurity information management program. Students will be expected to synthesize security and information management research from a local and an international perspective of public and private agencies. The goal of this course is to encapsulate security theories and applications learned throughout the Masters in Cybersecurity degree, by developing a strategic proposal demonstrating a security and information management strategy.
DOCTOR OF EXECUTIVE LEADERSHIP (DEL)

DEL 700. Research: Culture of Inquiry  2 credits
Examines research as a culture of inquiry including elements of critical thought, ways of knowing, practices of scientific and intellectual communities, the role of concepts and theory in research, and conceptual frameworks for research performance. Initiates skill building for critical reading and writing for research performance.

DEL 710. Leadership Theories and Perspectives  3 credits
Reviews and critically analyzes the foundations of leadership theories; identifies connections between theories; introduces leadership as a field of study and discusses researchable questions in the field.

DEL 720. Leadership in Context  3 credits
Critically assesses the role of the contextual environment from two perspectives: (1) the moderating effect of context on leadership effectiveness and (2) the ways leaders imagine, shape, and leverage context to accomplish organizational sustainment. Focuses on executive leadership but within a multi-level framework and on the role of context in leadership research.

DEL 727. Leadership Research and Design Logic  3 credits
Critically reviews current approaches for leadership research and examines development of significant research questions for advancing leadership scholarship and practice. Explores design logic and alignment with research questions.

DEL 730. Ethics: Values and Decision Making  3 credits
Focuses on ethics as challenges leaders face in organizations. Addresses contemporary challenges, including the effect of the increasingly complex environment on the nature of ethical behavior, and considers the consequence of historical events.

DEL 740. Organizational Dynamics  3 credits
Examines complex strategic problem solving for sustained organizational success. Provides participants with an understanding of the role of leadership in creating long-term viability. Focuses primarily on learning, innovation, and dynamic capabilities.

DEL 750. Collaborative Leadership  3 credits
Examines issues related to collaboration and communication primarily in the context of organizations and interests external to the organization. Identifies unique aspects of effective leadership in collaborations, including the need to be politically savvy.

DEL 760. Leadership Development  3 credits
Examines the relationship between practices and processes of developing leaders in various contexts (e.g., industry, nonprofit, human services, political, and military) and strategically managing talent as a source of organizational sustainability.

DEL 800. Research: Responsible Conduct of Research  1 credit
Analyses the ethical standards and guidelines for social and behavioral research and addresses issues related to protected subjects, potential harm, informed consent, and confidentiality, as well as the consideration of the institutional research approval processes.

DEL 802. Conceptual Frameworks for Leadership  3 credits
Explores topical areas of leadership research through reading broadly in leadership literature and developing a conceptual framework as it relates to an integrated research design. Activities build specialized knowledge in the topical areas and facilitate dialogic
engagement in the intellectual community to generate, conserve and transform knowledge on the topics.

**DEL 805. Quantitative Research**  3 credits
Examines the nature of quantitative research, discusses quantitative research methodologies, and develops the skills appropriate for those methodologies. Explores criteria for decisions in quantitative research from design through data collection, analysis, and interpretation. Investigates quantitative methodologies within mixed methods research, and requires conceptualization and completion of a quantitative phase of a mixed method mini-research study.

**DEL 815. Qualitative Research**  3 credits
Examines the nature of qualitative research, discusses qualitative research methodologies, and develops the skills appropriate for those methodologies. Explores criteria for decisions in qualitative research from design through data collection, analysis, and interpretation. Investigates qualitative methodologies within mixed methods research and requires conceptualization and completion of a qualitative phase of a mixed method mini-research study.

**DEL 810. Complexity and Sustainability**  3 credits
Focuses on exploring complex adaptive systems and complexity leadership as ways to achieve sustainability for organizations during times of uncertainty and ambiguity.

**DEL 830 Executive Decision-Making**  3 credits
Integrates the concepts and skills in the program’s core leadership courses in a capstone exploration which investigates the challenges executive leaders face in the design and execution of strategy. Focuses on the art and science of decision-making, including constrained optimization and process analysis. Considers decision making during periods of uncertainty, how to involve internal resources and knowing when to tap external resources during the decision-making process.

**DEL 895X. Executive Leadership Seminar II: Futuring**  3 credits
This Executive Leadership Seminar explores the challenges for executive leadership in learning agility and expanding it within their organization. With the rapid growth of knowledge, the business landscape is rapidly changing. Participants will critically reflect on discussions and scenarios drawn from literature on knowledge management, complexity, innovation, ethics, and dynamic capabilities. Participants will identify how their research and their practice of leadership helps expand forward-thinking.

**DEL 896X. Executive Leadership Seminar I: Stewardship**  3 credits
This Executive Leadership Seminar explores the role of the executive leader as a steward. Participants will critically reflect on discussions and scenarios drawn from literature on philosophies of ethics, leadership development and leadership in context. Participants will identify how their research and their practice of leadership will extend stewardship to their own professional context.

**DEL 900. Creating Portfolios**  1 credit
Participants review, reflect on, and develop artifacts in preparation for the Pro-seminar series. During the course, participants begin to create portfolios for use as scholars and practitioners.

**DEL 901/902/903. Dissertation I/II/III**  3 credits each
DEL 904. Dissertation Continuation 1-3 credits
The doctoral dissertation is designed to demonstrate the researcher’s ability to conduct research as a scholar practitioner. This process begins after the approval of the dissertation proposal. The goal is to generate new knowledge within the discipline of leadership. This research project is accomplished through the collection and analysis of both primary and original data on a specific problem. The researcher’s project culminates with a scholarly document and presentation that represents the three elements of stewardship: generation, conservation, and transformation of knowledge within the discipline.

DEL 910/920/930. Pro-seminar: Generating, Conserving, and Transforming Knowledge I/II/III 3 credits each
Participants answer this question: As stewards of the discipline, how will they and others meet the expectations of generating new knowledge, conserving the discipline, and transforming knowledge to others? Participants assess existing knowledge in the leadership discipline to determine goals and directions for their professional activities, engage in experiential learning in support of their professional goals, and create and present their post-graduate personal plan as a scholar-practitioner.

STRATEGIC LEADERSHIP (GSL)

GSL 510. Art and Science of Strategic Leadership 3 Credits
Begins an in-depth analysis of the discipline of leadership as specifically related to how a leader can help ensure organizational effectiveness in an unpredictable environment. Throughout the duration of this course, we will explore the myriad concepts underlying strategic leadership. Emphasis will be placed on developing an understanding of leadership theory; particularly the development of a personal model that will be meaningful for you, now and in the future.

GSL 512. The Leadership Challenge 3 credits
This course presents a preeminent leadership model based upon the Kouzes-Posner conceptual framework and the research that supports it. This course is about being a leader. The focus is not so much on leadership in terms of theoretical constructs, but more about leadership as a relationship and a process; and about developing the understanding necessary to become a leader.

GSL 504. Organization, Group and Team Leadership 3 credits
This course concentrates on understanding the operational challenges facing the strategic leader at the group, team, and organizational level. It builds a framework for developing trust, teamwork, clear focus, confidence, and motivation by focusing on the “Be-Know-Do” of leadership theory at all levels. Leadership is most important when the stakes are highest, but it must be continuously developed, nurtured patiently, and tested with uncertainty if it is to be fully realized.

GSL 507. Reframing Leadership 3 credits
This course is the genesis of a process of reframing our leadership model into one that incorporates the context of organizations in its broadest possible conception. Leadership, strategic or otherwise, exists because of organized activity. It is imperative that leaders understand the importance of reframing their view of leadership and the organizational activities which necessitate them.
GSL 506. The Human Side of Organizations 3 credits
This course is an in-depth study of the critical components of the strategic leadership of human capital. Essential to this concept is to identify and implement organizational practices and designs that are beneficial to both individuals and organizations in a way that actually produces long-term payoffs for organizations and the people who work in them.

GSL 601. Organizational Theory 3 credits
This course provides an interdisciplinary application of psychological principles and methods to a wide variety of problems that develop within the context of work. It emphasizes the application of psychological facts and principles as they apply to people operating in business and industry.

GSL 605. Organizational Performance 3 credits
This course addresses the concepts and methods necessary for leaders to create organizational effectiveness through superior performance. These include measuring individual and organizational performance as well as leading for transformation. Rooted in Quality Management, the Balanced Scorecard, the Baldrige Process and measurement frameworks, performance measurement is concerned with the behavioral skills leaders use energize their organizations into a strategy of competitive advantage by broadening its ability to achieve goals and by influencing and working effectively through others. It is a profoundly social process.

GSL 610. Strategic Thinking 3 credits
This course concentrates on business decision-making under conditions of uncertainty. The development of mission statements, strategic goals, control mechanisms, and alternative levels of strategy will be explored. Students learn the analytical process firms use to determine the parameters of their strategic plan, the problems firms encounter in formulating their plan, and the methods firms use to ensure that their strategic plan is implemented efficiently.

GSL 615x. Leading Across Boundaries 3 credits
This course explores how to create sustainable collaborative cultures in an organization to develop successful and long-lasting relationships. The course examines interpersonal and organizational forces that can inhibit collaboration and strategies to overcome those challenges. Throughout the course, the opportunity to explore topics such as ethics, complexity, design thinking and social responsibility are presented within the scope of leading across boundaries.

GSL 630x. Strategic Project Management 3 credits
This course offers a strategic perspective to the process of managing complex projects through project management techniques in order to implement the business strategy and deliver organizational change. The course will focus on the business aspect of the project to support the organization's business strategy and sustainability. Throughout the course, strategic project management capability is explored as it relates to competitive advantage, organizational change, and added value for the organization and stakeholders.

GSL 629. Research Methods 3 credits
Students will examine and analyze qualitative, quantitative, and mixed methods in the investigation of phenomena relevant to ethical evidence-based practice and research in organizational leadership. Based on a critical analysis of relevant scholarly literature and practices, students will learn how to formulate a researchable problem and an appropriate investigation strategy. Course topics include basic research designs, the development of sound research questions, measurement, data collection techniques, data analysis methods.
STRATEGIC LEADERSHIP SPECIALIZATION COURSES

Strategy as Practice (SLSP)

SLSP 640. Strategy as Practice: Understanding Strategy in Context 3 credits
This course continues the understanding of strategic leadership and the importance of context. Organizational development and change provide the backdrop of the applicability of contextually dependent views of successful leadership. How does the context of a leader’s organization, both internal and external, shape their practices and behaviors? This course emphasizes the practical application of the concepts, theories, and practices which students learn from their coursework by applying them in real organizational environments and situation, with a special focus on understanding strategic context including the role of financial data in making strategic decisions.

GSL 641X. Strategic Issues in Strategy as Practice 3 credits
This course concentrates on understanding the strategic issues that comprises the framework for developing a fundamental understanding of SAP. At its core SAP focuses on three primary components; who does SAP, what tools and techniques do they employ, and what do their daily activities look like. As such, this course emphasizes practice as managerial action through a lens of management and organization theories. Additionally, practice as a set of tools through the lens of communication and language theories is explored. Finally, practice as knowledge and organizational resources through a lens of social science theories are considered. Students will exercise their ethnographic and case study research methodology skills to provide a more contextual understanding of SAP.

SLSP 650. Strategy as Practice: Value and Customers 3 credits
This course focuses on adding value for customers by being proactive and continuously innovative so that the organization captures customers’ stated, unstated, and anticipated requirements, expectations, and desires. Focusing on the customer is a strategy to fundamentally align the organization’s products and services with the wants and needs of its most valuable customers. The organization collects and analyzes customer data in order to build and maintain relationships, increase customer engagement, and ensure the long-term sustainability of the organization.

GSL 661X. Strategic Innovation in Strategy as Practice 3 credits
This course focuses on exploring recent initiatives and innovations within SAP along with the processes leaders utilize to acquire and implement new initiatives and innovations within an organization. Teams will explore new initiatives and innovations evaluating the implementation strategies making predictions from inferences and determining the best practices and lessons learned from these efforts to improve the strategizing function as a driver of innovative practice.

SLSP 690. Strategic Leadership: Strategy as Practice Capstone 3 credits
This course is the culmination of the capstone project that began with the Balridge Criteria for Performance Excellence as the project framework. The strategic leadership outcomes of the program should be demonstrated in the final report and its presentation. The focus of this course is to design an action learning project that is determined by one of the opportunities for improvement identified from the organization’s leadership, strategy, customer focus, knowledge management, workforce, or operations. The student, in conjunction with organization stakeholders, makes recommendations for future actions based on strategic leadership theories and relevant literature. Students will prepare a project report, and present their findings in both a written document and orally with an electronic presentation to their facilitators, peers, and organizational executives if possible.
Business Management (SLBM)

SLBM 640. Business Management: Understanding Strategy in Context  3 credits
This course continues the understanding of strategic leadership and the importance of context. Organizational development and change provide the backdrop of the applicability of contextually dependent views of successful leadership. How does the context of a leader’s organization, both internal and external, shape their practices and behaviors? This course emphasizes the practical application of the concepts, theories, and practices which students learn from their coursework by applying them in real organizational environments and situation, with a special focus on understanding strategic context including the role of financial data in making strategic decisions.

SLBM 650. Business Management: Value and Customers  3 credits
This course focuses on adding value for customers by being proactive and continuously innovative so that the organization captures customers’ stated, unstated, and anticipated requirements, expectations, and desires. Focusing on the customer is a strategy to fundamentally align the organization’s products and services with the wants and needs of its most valuable customers. The organization collects and analyzes customer data in order to build and maintain relationships, increase customer engagement, and ensure the long-term sustainability of the organization.

SLBM 690. Strategic Leadership: Business Management Capstone  3 credits
This course is the culmination of the capstone project that began with the Baldrige Criteria for Performance Excellence as the project framework. The strategic leadership outcomes of the program should be demonstrated in the final report and its presentation. The focus of this course is to design an action learning project that is determined by one of the opportunities for improvement identified from the organization’s leadership, strategy, customer focus, knowledge management, workforce, or operations. The student, in conjunction with organization stakeholders, makes recommendations for future actions based on strategic leadership theories and relevant literature. Students will prepare a project report, and present their findings in both a written document and orally with an electronic presentation to their facilitators, peers, and or organizational executives if possible.

Healthcare Management

SLHM 640. Healthcare Management: Understanding Strategy in Context  3 credits
This course continues the understanding of strategic leadership and the importance of context. Organizational development and change provide the backdrop of the applicability of contextually dependent views of successful leadership. How does the context of a leader’s organization, both internal and external, shape their practices and behaviors? This course emphasizes the practical application of the concepts, theories, and practices which students learn from their coursework by applying them in real organizational environments and situation, with a special focus on understanding strategic context including the role of financial data in making strategic decisions.

SLHM 650. Healthcare Management: Value and Customers  3 credits
This course focuses on adding value for customers by being proactive and continuously innovative so that the organization captures customers’ stated, unstated, and anticipated requirements, expectations, and desires. Focusing on the customer is a strategy to fundamentally align the organization’s products and services with the wants and needs of its most valuable customers. The organization collects and analyzes customer data in order to build and maintain relationships, increase customer engagement, and ensure the long-term sustainability of the organization.
SLHM 690. Strategic Leadership: Healthcare Management Capstone  3 credits
This course is the culmination of the capstone project that began with the Baldridge Criteria for Performance Excellence as the project framework. The strategic leadership outcomes of the program should be demonstrated in the final report and its presentation. The focus of this course is to design an action learning project that is determined by one of the opportunities for improvement identified from the organization’s leadership, strategy, customer focus, knowledge management, workforce, or operations. The student, in conjunction with organization stakeholders, makes recommendations for future actions based on strategic leadership theories and relevant literature. Students will prepare a project report and present their findings in both a written document and orally with an electronic presentation to their facilitators, peers, and organizational executives if possible.

MASTER OF BUSINESS ADMINISTRATION (MBA)

MBA 591. Professional Experience I  2 credits
Professional Experience I is a two-credit hour experiential class of the MBA program for students who have less than three years of professional work experience. This course focuses on giving you a grounding in the world of professional work – what managers do, how they behave, react and lead. Understanding work as a process and applying that thinking to solve a problem for a real-world company will be the emphasis.

MBA 592. Professional Experience II  2 credits
Professional Experience II is a two-credit hour experiential class of the MBA program for students who have less than three years of work experience. This course focuses on giving you a grounding in the world of professional work – what managers do, how they behave, react and lead. Three components comprise the work of this course: internship / employment, mentoring, and community involvement.

MBA 593. Professional Experience III  2 credits
Professional Experience III is a two-credit hour experiential class of the MBA program for students who have less than three years of work experience. This course focuses on giving you a grounding in the world of professional work – what managers do, how they behave, react and lead. Two components comprise the work of this course: internship / employment and mentoring.

MBA 594. Professional Experience IV  2 credits
Professional Experience IV is a two-credit hour experiential class of the MBA program that is the culmination of Professional Experience I, II & III. Completion of this last module will bridge together the fundamentals and experiences you have gained through class assignments, projects, mentor interaction, research, written papers and oral presentations. The most important learning outcome is creation of a Personal Development Plan.

MBA 621. Management / Organizational Behavior  4 credits
This introductory module explores various categories of corporate cultures and subcultures; how businesses are organized; personnel perceptions / attitudes and personalities; the various definitions of leadership and the difference between leadership and management/supervision; legal and ethical decision making in business; and beginning human resource applications.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MBA 622</td>
<td>Managerial Accounting and Finance</td>
<td>4</td>
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<td>This course is designed to help participants gain an understanding of the roles of managerial accounting and financial management and their relationship to each other and to other functions within the business enterprise. Emphasis will be placed on the principal responsibilities of these functions and the institutional framework within which they operate. Students will learn how managerial accounting interfaces with decision models from operations research, economics and finance.</td>
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<td>MBA 623</td>
<td>Applied Marketing</td>
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<td>This course explores the marketing strategy process by examining how to effectively evaluate options based on a business's competitive position. The course uses tools to help business leaders make informed decisions on where and how to compete and how to assess performance. This course combines concepts of market research, consumer behavior, and marketing communications as they are applied to existing business.</td>
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<td>MBA 624</td>
<td>Quantitative Methods for Business and Economics</td>
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<td>This course is a combination of theory and application of various quantitative and statistical methods to address the goal of improved and informed decision making. As a graduate course, the focus will be on identification of potential applications in selected industries and companies. Students should expect to build on foundations from business and economic concepts in order to grasp the application of tools and methods covered in the course.</td>
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<td>MBA 625</td>
<td>International Business and Trade</td>
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<td>This course offers a global perspective on challenges facing modern corporations in organizing activities that span multiple cross borders environments as well as the interaction between countries, regulatory systems and organizations. Attention is especially focused on the dynamics of international trade and investment, including the relationship between trade and economic growth, trade imbalances and protectionism, foreign direct investment and the role of MNCs in the global economy.</td>
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<td>MBA 626</td>
<td>Managerial Economics</td>
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<td>Students will apply microeconomic concepts and decision science to managerial problems, relating each topic to a basic valuation model of the firm. Topics include economic optimization, the theory of consumer behavior (demand analysis, demand estimation and forecasting), the theory of the firm (production and cost analysis and estimation), market structure analysis, and other related topics. The objective is for students to demonstrate the ability to understand and apply managerial economics concepts and tools to improve managerial decision-making processes as part of a broader strategic planning process for organizations. Students will also demonstrate the ability to communicate both individually and as a group.</td>
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<tr>
<td>MBA 627</td>
<td>Operations Management</td>
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<td>This course will introduce Operations Management in real-time and real-world practices. Better decision making is the focus and requires an understanding of project management, forecasting, process strategy, work analysis, planning, scheduling and regression, and correlation formulas as applied to quantitative and qualitative decision making. This will include Program Evaluation and Review Technique (PERT) and Critical Path Management (CPM), leading to the successful practice of Operations Management.</td>
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MBA 628. Strategic Decision-Making Project  4 credits
This course is the culmination of the program. It covers the total integration of business functions in the context of corporate strategic planning and future development; provides the student with a “case development” project on a selected company or corporation; and requires the completion of a team project based on a detailed presentation on a selected business with specific emphasis on business planning, operation and possible expansion.

ONLINE MASTER OF BUSINESS ADMINISTRATION (MBA)

MBA 671X. Management  3 credits
This course explores organizational structure and change; personnel perceptions/attitudes and personalities; the various definitions of leadership and the difference between leadership and management/supervision; ethical decision making in business; and beginning legal and human resource applications.

MBA 672X. Managerial Accounting  3 credits
This course is designed to help participants gain an understanding of the roles of managerial accounting and financial management and their relationship to each other and to other functions within the business enterprise. Emphasis will be placed on the principal responsibilities of these functions and the institutional framework within which they operate. Students will learn how managerial accounting interfaces with decision models from operations research, economics and finance.

MBA 673. Applied Marketing  3 credits
This course explores the marketing strategy process by examining how to create customer value by effectively evaluating options based on a business's competitive position. The course uses tools to help business leaders make informed decisions on where and how to compete and how to assess performance. This course combines concepts of market research, consumer behavior, and marketing communications as they are applied to existing business.

MBA 674. Quantitative Methods for Business and Economics  3 credits
This course is a combination of theory and application of various quantitative and statistical methods to address the goal of improved and informed decision making. The focus is on the identification of potential applications in selected industries and companies. Students should expect to build on foundations from business and economic concepts in order to grasp the application of tools and methods covered in the course.

MBA 675. International Business and Trade  3 credits
This course offers a global perspective on challenges facing modern corporations in organizing activities that span multiple cross borders environments as well as the interaction between countries, regulatory systems and organizations. Attention is especially focused on the dynamics of international trade and investment, including the relationship between trade and economic growth, trade imbalances and protectionism, foreign direct investment and the role of multi-national corporations in the global economy.

MBA 676. Managerial Economics  3 credits
In this course students apply microeconomic concepts and decision science to managerial problems, relating each topic to a basic valuation model of the firm. Topics include economic optimization, the theory of consumer behavior (demand analysis, demand estimation and forecasting), the theory of the firm (production and cost analysis and estimation), market structure analysis, and other related topics. The objective is for students to demonstrate the ability to understand and apply managerial economics.
concepts and tools to improve managerial decision-making processes as part of a broader strategic planning process for organizations. Students will also demonstrate the ability to communicate both individually and as a group.

**MBA 677. Managerial Finance**

This course is designed to help participants gain an understanding of the principles of corporate finance. Emphasis will be placed on the application of financial decision-making tools to inform managerial decisions about how to finance the assets needed for production, asset valuation, capital budgeting, capital market theory, cost of capital, risk, and uncertainty.

**MBA 678. Strategic Decision-Making Project**

This course is the culminating capstone course in the program. It covers the total integration of business functions in the context of corporate strategic planning and future development; provides the student with a “case development” project on a selected company or corporation; and requires the completion of a team project based on a detailed presentation on a selected business with specific emphasis on business planning, operation and possible expansion.

**ONLINE MASTER OF BUSINESS ADMINISTRATION CONCENTRATION COURSES**

**(MBA)**

**MBA 711. Organizational Behavior**

Organizations have behavior patterns that can be identified, assessed, understood, and improved. This course is about people, and especially people at work. Organizations are made up of people and people create workplace cultures and subcultures. Individual and group attitudes and behaviors are examined in the context of the workplace and how they impact the organization. This course also covers communication, conflict, power and politics and how the workplace is organized.

**MBA 712. Operations Management**

This course will develop the student’s ability to understand and apply operations management concepts and statistical techniques to inform managerial decision making, solve problems, and communicate solutions. Real-world applications will include manufacturing and service sectors. The areas of focus include productivity, lean and six-sigma operations, process strategy, human resource and work analysis, planning, scheduling, quality management, outsourcing, and inventory analysis as applied to quantitative and qualitative decision making.

**MBA 713. Project Management**

This course will introduce and apply project management tools and techniques to effectively and efficiently manage projects considering time and budget implications. Tools and topics will include Program Evaluation and Review Technique (PERT), Critical Path Method (CPM), project leadership, risk identification and management, communication, and team building.

**MBA 721. Healthcare Economics**

This course applies principles of economics to the healthcare sector. The course analyzes medical care markets and public policy, recognizing the importance of scarcity and economic incentives, and allowing for differences peculiar to healthcare. Demand and supply of health and medical care are examined as they involve: consumer/patients,
healthcare professionals, hospitals, health insurance providers, managed care plans, and public policy.

**MBA 722. Healthcare Informatics** 3 credits
This course explores the role of information technology in the management of health information systems to improve healthcare outcomes. Topics include the terminology, storage, retrieval, and use of information in healthcare.

**MBA 723. Healthcare Policy and Ethics** 3 credits
This course provides an overview of the healthcare system in the U.S. and develops the student’s understanding of government policy and ethical issues as they relate to healthcare access, quality, affordability, and the implications of different views on healthcare reform.

**MBA 731. Business Forecasting** 3 credits
This course is designed to understand and implement advanced forecasting techniques that are commonly used in industry. In this course, students will learn various statistical and econometric techniques that are essential to enhance the accuracy of forecasting results. Forecasting results plays a very crucial role in business decision making, and this course will adequately prepare students with an emphasis on applications in accordance with the growing need for such skills in contemporary business environs.

**MBA 732. Data Mining and Visualization** 3 credits
This will be an introductory course with a focus on the basic concepts of data mining and visualization. The course will cover various data mining techniques and will also provide a hands-on introduction to visualize a wide variety of data and present findings to communicate information to the intended audience. The skills learned in this course helps to analyze large, complex datasets, and present the findings to support business decision making.

**MBA 733. Predictive Modeling** 3 credits
This course will cover the various tools and techniques of predictive modeling that used by professionals in contemporary business. The course emphasizes the tools to build machine learning models and implement predictive modeling techniques for a variety of practical business applications. Students will develop the knowledge to make better predictions of outcomes, which is an essential skill valued in contemporary workplaces.

**MASTER OF PHYSICIAN ASSISTANT (MPAS)**

**MPAS 501. Professional Development I** 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. This first semester focuses on the history of the profession, professionalism, medical ethics, and working as part of a health care delivery team.

**MPAS 502. Professional Development II** 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. This second course in the series focuses on the health care provider’s roles and responsibilities in the area of public health and the practice of preventive medicine.
MPAS 503. Professional Development III 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. The third in this seven-course sequence evaluates health care disparities and provider sensitivity to cultural diversity, socioeconomic differences, and their impact on health and wellness. Alternative, integrative and preventive approaches to health care are examined.

MPAS 504. Professional Development IV 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. Offered during the final semester of the didactic curriculum, this course focuses on preparation for clinical practice looking at many of the legal and practice-based issues including: electronic data management, coding, billing, reimbursement, rules and regulations, confidentiality, certification and licensure, and safety.

MPAS 505. Professional Development V 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. This fifth course in the series is taken at the onset of the student’s supervised clinical practice experiential learning. The focus during this transitional phase is the development of skills needed to become a lifelong learner through practice-based learning/self-improvement and developing awareness of health care systems, health policy, and current trends/issues. There is a continued emphasis on the display and development of professionalism as it applies to clinical practice.

MPAS 506. Professional Development VI 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. During this sixth semester of professional development the organizational and economic elements of a systems-based practice are examined focusing on cost-effective and efficient health care, case management, risk management, error prevention, patient safety, and quality improvement.

MPAS 507. Professional Development VII 1 credit
The professional development sequence of courses spans the entire program curriculum and is intended to introduce and integrate principles of professionalism, ethics, and the business of medicine with the practice of medicine. The focus of this final course in the series will be the professional expectations and responsibilities facing the new physician assistant graduate and cultivation of the skills necessary for career development and growth. Topics will include such things as curriculum vitae/resume development, job searching, interviewing, employment contracts, credentialing, privileging, mentoring, leadership development and sustaining the profession.

MPAS 550. Mechanisms of Disease 2 credits
This course is an introduction to general pathology covering the basic principles of cell biology, histology, embryology, immunology, molecular genetics, infectious processes, nutrition, and environmental effects on health necessary for an understanding of human disease processes and the molecular mechanisms underlying disease development. The
pathophysiology of diseases affecting specific body regions is presented in the individual organ system courses.

**MPAS 560. Clinical Pharmacology**  
2 credits  
This course covers fundamental pharmacology principles to provide a foundation for students to learn more about and subsequently utilize pharmacotherapeutics in the practice of patient-centered care. Topics include but are not limited to: pharmacokinetics, pharmacodynamics, drug interactions, adverse drug reactions, autonomic nervous system pharmacology, and analgesia. Emphasis will be placed on individualization of drug therapy.

**MPAS 570. Applied Anatomy**  
4 credits  
This course in human anatomy is intended to stress the clinical applications of topographic, radiographic and gross anatomy in the day to day practice of medicine. Recognizing normal anatomic structures, common anatomic variations, and anatomic pathology as well as the application of that knowledge toward effective diagnostic evaluation and therapeutic intervention is emphasized.

**MPAS 580. Medical Physiology**  
3 credits  
This course covers fundamental physiologic principles that must be understood in order to fully appreciate health and disease. Alterations of normal function will be highlighted throughout. Students will also be introduced to common laboratory medicine practices used to evaluate for disruption of the normal health state.

**MPAS 590. History and Physical Examination Skills**  
2 credits  
This course begins to develop effective interviewing skills necessary to perform a comprehensive health history as well as a problem-specific history. Students will be taught the principles of physical examination, including inspection, auscultation, percussion, and palpation. The initial focus will be on normal physical exam findings, with a latter emphasis on abnormal findings, so that students can identify normal findings and later differentiate between them. Instruction and practice in recording the comprehensive health history and physical exam will be included in this course. This course focuses on the history and physical examination specific to adults. History and physical exam skills specific to the pediatric and geriatric population are taught in other courses.

**MPAS 590L. History and Physical Examination Skills Lab**  
1 credit  
This course begins to develop effective interviewing skills necessary to perform a comprehensive health history as well as a problem-specific history. Students will be taught the principles of physical examination, including inspection, auscultation, percussion, and palpation. The initial focus will be on normal physical exam findings, with a latter emphasis on abnormal findings, so that students can identify normal findings and later differentiate between them. Instruction and practice in recording the comprehensive health history and physical exam will be included in this course. This course focuses on the history and physical examination specific to adults. History and physical exam skills specific to the pediatric and geriatric population are taught in other courses.

**MPAS 600. Clinical Nutrition**  
1 credit  
This course is designed to provide a broad understanding of the basic principles of nutrition, as applied to clinical medicine. Students will identify the essential nutrients and their functions, as well as describe nutritional behaviors that promote optimal nutrition and disease prevention throughout the life span. Energy balance, nutrition for fitness, and nutrition in the treatment of disease will be included.
MPAS 601. Behavioral Dynamics 3 credits
This course will challenge students to learn about and apply interpersonal and communication skills that are critical in the practice of medicine. Health and disease will be examined from a biopsychological perspective with reference to psychotherapies, psychopharmacology, and environmental intervention. Diagnosis and management of common psychiatric and psychosocial problems encountered in primary care will also be highlighted. Topics covered include, but are not limited to: anxiety disorders, mood disorders, psychosis, substance use disorders, personality disorders, eating disorders, and psychiatric emergencies and crises.

MPAS 602. Clinical Medicine IA 4 credits
This is one of the series of courses using an organ systems approach for study of the clinical sciences. During this course, the commonly encountered medical problems primarily affecting the hematopoietic and lymphoid organs and processes of hemostasis and medical problems primarily affecting metabolism and organs of the endocrine system are examined. The clinical presentation, epidemiology, pathology, patient assessment, diagnosis, therapeutic interventions, management, and clinical course of these conditions will be explored. An introduction to oncology is also included which focuses on the clinical aspects of cancer screening, diagnosis, staging, and therapeutic intervention. Organ specific cancers are primarily discussed in their corresponding clinical science courses.

MPAS 603. Clinical Medicine IB 4 credits
This is one of the foundational courses for study of the clinical sciences. This course uses a generalized approach to study infectious diseases by examining the mechanisms of disease transmission and pathogenicity, methods of diagnosis, antimicrobial pharmacotherapy, common and systemic clinical presentations, and methods for infection control and prevention. Common bacterial, viral, fungal, and parasitic pathogens are explored. Organ system specific infections are primarily discussed in their corresponding clinical science courses. Commonly encountered medical problems primarily affecting the eyes, ears, nose and throat (EENT) are examined. The clinical presentation, epidemiology, pathology, patient assessment, diagnosis, therapeutic interventions, management, and clinical course of these conditions will be explored.

MPAS 604. Cardiovascular-EKG 4 credits
This is one of the series of courses using an organ systems approach for study of the clinical sciences. During this course, the commonly encountered medical problems primarily affecting the cardiovascular system are examined. The clinical presentation, epidemiology, pathology, patient assessment, diagnosis, therapeutic interventions, management, and clinical course of these conditions will be explored. Students will also be challenged to learn the fundamentals of interpreting an electrocardiogram (EKG) with an emphasis on identifying common abnormal EKG patterns and differentiating these patterns from normal and normal variant EKG tracings.

MPAS 605. Geriatrics 1 credit
This course is designed to provide the foundation to address changes that occur with aging and medical problems commonly seen in the elderly. In addition, there is focus on the impact of aging on a patient’s quality of life, limitations in mobility and communication, access to health care, therapeutic interventions, and issues related to death and dying.
MPAS 606. Clinical Medicine IIA 4 credits
This is one of the series of courses using an organ systems approach for study of the clinical sciences. During this course, the commonly encountered medical problems primarily affecting the gastrointestinal and genitourinary system are examined. The clinical presentation, epidemiology, pathology, patient assessment, diagnosis, therapeutic interventions, management, and clinical course of these conditions will be explored.

MPAS 607. Clinical Medicine IIB 4 credits
This is one of the series of courses using an organ systems approach for study of the clinical sciences. During this course, the commonly encountered medical problems primarily affecting the pulmonary and neurologic system are examined. The clinical presentation, epidemiology, pathology, patient assessment, diagnosis, therapeutic interventions, management, and clinical course of these conditions will be explored.

MPAS 613 Principles of Rural Appalachian Medicine 1 credit
This course is designed to provide instruction on the differences in health care of the individuals in rural Appalachian communities. There is a focus on the vast health disparities for this region, as well as the environmental, economic, and social conditions that contribute to poor health and substandard health care.

MPAS 608. Women’s Health 3 credits
This course addresses important aspects of women’s health with an emphasis on obstetrical, gynecologic, and preventive care. Content will include a thorough exploration of physiology, pathophysiology, disease states, management options, and screening guidelines for women’s health issues. Obstetrics focuses on the principles of prenatal care, complications that arise in pregnancy, and management of the more common emergent problems that can occur in pregnancy.

MPAS 609. Pediatrics 3 credits
This course examines important aspects of primary care pediatrics including assessment of the child patient, preventive health, and pediatric diseases and conditions. Specific issues of the newborn and older child will be presented in such areas as perinatal care, child development & behavior, congenital & genetic disorders, pediatric pharmacotherapy, pediatric infectious disease, and parenting. The student will also learn assessment techniques specific to the pediatric population.

MPAS 610. Emergency Medicine 3 credits
This course is designed to prepare students to recognize, rapidly assess, and effectively manage an emergent illness or injury. Problem-based case studies and team-based activities are utilized extensively in this course to encourage the development of team-work, collaboration, and interdisciplinary value. BLS and ACLS certification is part of this course.

MPAS 611. Surgery 1 credit
This course focuses on the surgical management of health care problems emphasizing the principles and practices involved in aseptic and surgical technique, wound management, anesthesia, and preoperative, perioperative and postoperative evaluation and management of patients.

MPAS 612. Clinical Medicine III 4 credits
This is one of the series of courses using an organ systems approach for study of the clinical sciences. During this course, the commonly encountered medical problems primarily affecting the musculoskeletal and dermatologic system are examined. The
clinical presentation, epidemiology, pathology, patient assessment, diagnosis, therapeutic interventions, management, and clinical course of these conditions will be explored.

**MPAS Hospital Medicine**  
1 credit  
This course will address the core competencies that are essential in managing many of the challenges experienced by hospital-based health care professionals. Using an interactive, case-based format, key highlights from most major areas of internal medicine will be presented. The goals of this course are to develop an understanding of how to appropriately manage common inpatient clinical conditions and their potential complications during hospitalization and to incorporate multidisciplinary plans for clinical decision making and transition of care.

**MPAS 691. Patient-Centered Care I**  
2 credits  
The patient-centered care (PCC) sequence of courses spans the didactic component of the curriculum and is designed to challenge students to develop clinical reasoning skills, think critically, enhance interpersonal and communication skills, apply evidence-based resources, and problem-solve as clinicians and as members of an interdisciplinary health care team. The first PCC course focuses on several fundamental concepts: team approach to care, patient-centered medical home (PCMH), roles and responsibilities of various health professions, core epidemiology and biostatistics principles, evidence-based medicine, and health information literacy. Tailoring care to individual patients will also be discussed, including principles related to treating patients with chronic disease so that students may subsequently consider disease processes of organ-systems in the context of patients with underlying comorbidities.

**MPAS 692. Patient-Centered Care II**  
1 credit  
The patient-centered care (PCC) sequence of courses spans the didactic component of the curriculum and is designed to challenge students to develop clinical reasoning skills, think critically, enhance interpersonal and communication skills, apply evidence-based resources, and problem-solve as clinicians and as members of an interdisciplinary health care team. The second PCC course introduces students to simulated cases where they will act as clinicians to evaluate standardized patients. Cases will be acute care in nature and emphasis will be placed on the following: developing differential diagnoses, developing assessments and plans, the medical chart, medical documentation, informed consent, oral case presentation, and integration of preventive care and public health principles in the context of acute care.

**MPAS 692L. Patient-Centered Care II Lab**  
1 credit  
The second PCC course introduces students to simulated cases where they will act as clinicians to evaluate standardized patients. Cases will be acute care in nature and emphasis will be placed on the following: developing differential diagnoses, developing assessments and plans, the medical chart, medical documentation, informed consent, oral case presentation, and integration of preventive care and public health principles in the context of acute care.

**MPAS 693. Patient-Centered Care III**  
1 credit  
The patient-centered care (PCC) sequence of courses spans the didactic component of the curriculum and is designed to challenge students to develop clinical reasoning skills, think critically, enhance interpersonal and communication skills, apply evidence-based resources, and problem-solve as clinicians and as members of an interdisciplinary health care team. The third PCC course again utilizes simulated cases where students will evaluate standardized patients. Emphasis will be placed on the following: comprehensive
patient management, longitudinal management of established patients, admission orders, inpatient management, progress notes, discharge summaries, rehabilitative care, palliative care and end-of-life issues, and utilization of an electronic health care record.

MPAS 693L. Patient-Centered Care III Lab 1 credit
The third PCC course again utilizes simulated cases where students will evaluate standardized patients. PCC III will begin to prepare students to work in teams with students from other health professions on campus. Students will be challenged to rely on the strengths of students from other disciplines to solve complex medical cases. Emphasis will be placed on the following: comprehensive patient management, longitudinal management of established patients, admission orders, inpatient management, progress notes, discharge summaries, and rehabilitative care.

MPAS 694. Patient-Centered Care IV 1 credit
The patient-centered care (PCC) sequence of courses spans the didactic component of the curriculum and is designed to challenge students to develop clinical reasoning skills, think critically, enhance interpersonal and communication skills, apply evidence-based resources, and problem-solve as clinicians and as members of an interdisciplinary health care team. The fourth PCC course will prepare students to work in teams with students from other health professions on campus. Case-based scenarios and cases utilizing mannequin simulators will facilitate a team approach to patient centered care. Students will be challenged to rely on the strengths of students from other disciplines to solve complex medical cases. Emphasis will also be placed on further developing interpersonal and communication skills.

MPAS 694L. Patient-Centered Care IV Lab 1 credit
The fourth PCC course will continue to prepare students to work in teams with students from other health professions on campus to solve complex medical cases. Emphasis will be placed on the following: further development of interpersonal and communication skills, utilization of an electronic health record, palliative care and end-of-life issues, and development of self-reflective practices in preparation for the self-reflective portfolio component of the supervised clinical practice experience.

MPAS 699. Pre-Clinical Seminar 0 credit
This pass/fail seminar is required prior to the supervised clinical practice experiential learning component of the physician assistant program. Students must satisfactorily demonstrate a comprehensive basic medical and clinical sciences knowledge base and essential technical skills before they can proceed into clinical practice rotations.

MPAS 701-710. Supervised Clinical Practice Rotations 5 credits each
The supervised clinical practice experience (SCPE) rotations are the culminating learning activities of the physician assistant program. SCPE consist of seven core rotations that all students must take and one elective rotation in any of the medical specialties or subspecialties, or in medical research or medical academia. During each rotation students work with a practicing clinician (referred to as the preceptor) and are actively participating in health care delivery as part of the health care team.

MPAS 701. Family Medicine Rotation 5 credits
This five-week core clinical practice rotation provides an opportunity to learn, understand and gain supervised experience in practicing the principles of Family Medicine. The focus of this preceptorship is evaluation and management of commonly encountered conditions in the outpatient setting and in patients of all ages.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MPAS 702</td>
<td>Internal Medicine Rotation</td>
<td>5</td>
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<td></td>
<td>This five-week core clinical practice rotation provides an opportunity to learn, understand and gain supervised experience in practicing the principles of Hospital Medicine. The focus of this preceptorship is providing care for patients in the inpatient setting.</td>
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<tr>
<td>MPAS 703</td>
<td>Pediatrics Rotation</td>
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<td></td>
<td>This core clinical practice rotation provides an opportunity to learn, understand and gain supervised experience in practicing the principles of Pediatrics. The focus of this preceptorship is acute and preventive health care for pediatric patients.</td>
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<tr>
<td>MPAS 704</td>
<td>Obstetrics/Gynecology Rotation</td>
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<td>This core clinical practice rotation provides an opportunity to learn, understand, and gain supervised experience in the principles and practice of Obstetrics and Gynecology. The overall focus of this preceptorship is obstetrical, gynecologic, and women’s preventive care.</td>
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<tr>
<td>MPAS 705</td>
<td>Emergency Medicine Rotation</td>
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<td>This five-week core clinical practice rotation provides an opportunity to learn, understand and gain supervised experience in practicing the principles of Emergency Medicine. The focus of this preceptorship is evaluation and management of commonly encountered emergent/urgent illnesses and injuries in the emergency department setting and in patients of all ages.</td>
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<tr>
<td>MPAS 706</td>
<td>General Surgery Rotation</td>
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<td>This core clinical practice rotation provides an opportunity to learn, understand, and gain supervised experience in the principles and practice of General Surgery, especially in the operating room setting. The overall focus of this preceptorship is evaluation and care of patients with commonly encountered conditions requiring surgical management.</td>
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<tr>
<td>MPAS 707</td>
<td>Psychiatry Rotation</td>
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<td></td>
<td>This core clinical practice rotation provides an opportunity to learn, understand and gain supervised experience in practicing the principles of Psychiatry. The focus of this preceptorship is behavioral and psychiatric health care.</td>
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<tr>
<td>MPAS 708</td>
<td>Elective Rotation</td>
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<td>This mandatory elective five-week rotation provides the opportunity to gain experience in a specific area of interest that may include a medical or surgical subspecialty, academic medicine, or medical research. The focus of this preceptorship is to explore the role of health care specialists.</td>
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<tr>
<td>MPAS 799</td>
<td>Summative Seminar</td>
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<td>The purpose of this pass/fail seminar is twofold: to comprehensively demonstrate knowledge, patient care skills, and professional competency sufficient to function as an entry-level physician assistant and to prepare graduation candidates for the Physician Assistant National Certifying Examination (PANCE).</td>
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DOCTOR OF PHARMACY (PHAR)

PHAR 501L. Professional Awareness and Preparation Seminar Lab 1 credit
This one-credit hour seminar lab is designed to provide the enrolling first year professional pharmacy student with foundational information and knowledge necessary to begin the program. The Seminar is two-weeks in length and takes place in the two weeks immediately preceding the start of the fall semester. The Seminar will provide an overview of professional expectations, the top 200 drugs, pharmaceutical calculations, medical terminology and an introduction to communication (written and verbal). Participants will also participate in activities designed to facilitate productive group interactions. This seminar lab provides foundational information and activities to prepare entering pharmacy students for the rigor and professional expectations of pharmacy school. The culminating activity of the course is the creation of a class mission statement and participation in the School of Pharmacy White Coat Ceremony.

PHAR 506. Immunization Certification 1 credit
Upon successful completion of this self-study and hands-on course, the student will receive a certificate of completion from the American Pharmacists Association. Upon licensure and BLS certification graduates will be able to provide immunization therapy in accordance with the pharmacy regulations in their state of licensure.

PHAR 510. Introduction to Pharmacy Practice & Law 3 credits
Introduction to Pharmacy Practice orients the entering pharmacy student to the social, economic, and political environments within which pharmaceutical care is currently being delivered to the patient. The basic health care environment is examined with particular emphasis on the role of the pharmacist in the United States health care system. This includes examining the pharmacist’s role in a variety of practice settings. The course will provide an introduction to legal and ethical concepts that encompass the rights and responsibilities of the pharmacist and a practical application of the concepts. Discussion and exercises to increase awareness of cultural diversity are included.

PHAR 511. Drug Literature Evaluation 1 credit
Drug Literature Evaluation addresses an area of rapid growth in all areas of pharmacy practice: assuring the intelligent and safe use of drugs through effective utilization of the medical literature. The staggering size and varying quality of the clinical literature require that the pharmacy student develop sophisticated methods for managing the literature and critically evaluating the data that they often represent. Drug Literature Evaluation will present the student with the knowledge and tools necessary to manage this area of practice.

PHAR 512. Immunology 3 credits
Immunology will provide an introductory course that presents the basic elements of the immune system and of the means through which the mechanisms of immunity act in a wide range of clinical conditions, including protection against infectious agents, rejection of tumors, transplantation of tissues and organs, autoimmune and other immunopathologic conditions, and allergy.

PHAR 513. Biochemistry 3 credits
This course will provide students with the fundamental biochemical principles underlying cellular physiology and biological processes. Biochemistry will introduce bio-molecules mainly from a structural point of view and presents metabolism as well as molecular biology (gene expression and replication) by integrating structure-function relationship of enzymes and DNA-binding proteins, respectively.
PHAR 514. Pharmaceutics I (Pharmacy Calculations)  
2 credits 
The study of the measurement units, and mathematical functions and applications that are essential to the safe, accurate practice of pharmacy. This course emphasizes pharmaceutical nomenclature, numerical expressions, measurement equivalents, calculation formulas, and problem analysis and reasoning.

PHAR 515L. Pharmacy Skills Lab  
1 credit 
The purpose of this course is to orient the student pharmacist to select skills necessary for contemporary pharmacy practice. Topics will include technical aspects of dispensing, communications, medication errors, basic patient assessment, point-of-care testing skills (POCT), third party reimbursement, and supervisory skills. This laboratory course will also provide students with an integrated practical and theoretical experience related to the pharmaceutical science disciplines. During the semester long course, students will work both individually and in designated pairs, facilitating group learning and a team approach to problem solving.

PHAR 520. Basic Principles of Pathophysiology  
4 credits 
The basic biological mechanisms of disease will be presented and discussed. Importance will be placed on basic principles of cell injury and death; inflammation; and neoplasia.

PHAR 522. Pharmaceutics II  
3 credits 
Pharmaceutics II is an overview of medicinal formulations and physical/chemical properties of drugs. The course covers such topics as the stability of compounded products, quality control, sterilization, biotechnology preparations, and pharmaceutical compounding.
Prerequisites: PHAR 514.

PHAR 523L. Pharmacy Skills Lab II  
1 credit 
The purpose of this course is to orient the student pharmacist to select skills necessary for contemporary pharmacy practice. Topics will include technical aspects of sterile and non-sterile compounding, communications, medication errors, third party reimbursement, and supervisory skills. The lab class also covers the legal, practical and scientific basis of drug products and pharmaceutical delivery systems. It provides education in the physiochemical theories, terminology, pharmaceutical skills and the interpretation of formulation and performance of pharmaceutical products. This course will incorporate the pharmaceutics behind dosage forms while providing hands-on application for the physiochemical theories represented via dispensing and extemporaneous sterile and non-sterile compounding. Pre-requisite: PHAR 515 Skills Lab I

PHAR 524. Clinical Research Methods  
2 credits 
The study of general research methods and clinical design issues to foster an appreciation and understanding for conducting research, study design and development, statistical, method selection, application and interpretation of research results. Prerequisite: PHAR 511.

PHAR 525L. Introductory Pharmacy Practice Experience I  
1 credit 
Introductory Pharmacy Practice Experience I (IPPE I) is intended to provide initial exposure to community practice for first year pharmacy students. Early exposure to practice will make didactic instruction more relevant by providing opportunities to observe pharmacist patient care activities as well as managerial practices. Students will be placed in a community practice setting for 24 hours. This course also includes community pharmacy-based simulation activities designed to prepare students for their IPPE experiences (the simulation experiences do not count for the number of required IPPE hours). Students will be enrolled in this course in either the fall or spring semester of the first professional year.
PHAR 527. Life Style Modifications and Disease Prevention 3 credits
This course will focus on the non-pharmacological basis of disease prevention and those modifications to improve health. This course will combine a lecture-based course focusing on the need for wellness and the promotion of healthy lifestyles with projects geared towards elevating the students’ understanding of how to put the concepts into pharmacy practice. Key components of the course will focus on nutrition, physical activity, smoking cessation, and health behavior modification. Students will also learn how cultural differences and social disparities may play a role in achieving the lifestyle modifications necessary for positive health outcomes. A focus on the therapeutic indications of over the counter medications is also included in the course content.

PHAR 530. Toxicology 3 credits
Basic principles of toxicology and toxicogenomics will be presented in the course. Lecture topics include dose response relationships, adsorption, distribution, biotransformation and excretion of toxicants, toxicokinetics, chemical carcinogenesis, and mutagenicity. The relationship of these principles to both EPA and FDA required toxicity testing will be discussed. Basic principles will be applied to developmental, respiratory and liver toxicity induced by chemicals and pharmaceuticals. In addition, the basic science of micro arrays, DNA chips, genetic testing and transgenic animals will be presented. Application of methods and principles to forensic toxicology will be presented. This course will provide the foundation for understanding the complex interactions between pharmaceuticals and biological systems from a basic science perspective. (Elective)

PHAR 531. Ethnopharmacology of Appalachia 3 credits
This course provides the study and understandings about the people of Appalachia’s use of plants, fungi, animals, microorganisms, and minerals and their biological and pharmacological effects. In this class there will be an examination of remedies from the standpoint of medical efficacy, potential toxicities, and drug interactions with prescribed medications. (Elective)

PHAR 532. Appalachian & Rural Considerations in the Health Care System 3 credits
The goal of this course is to develop understanding and knowledge regarding rural issues that influence the health care perceptions and accessibility of people living in the Appalachian region of the United States. The pharmacy student will explore the various avenues created to minimize barriers to health care, e.g., federally-assisted health services. The application of the course information will be a project and presentation that includes diversity and disparity concepts. (Elective)

PHAR 533. Psychosocial Aspects of Medical Care 3 credits
This course looks underneath the structure of contemporary medical care at motivators, belief systems, and relationships. Becoming aware of these less-tangible forces better-equips the pharmacist to provide optimal health care and influence the system in which he or she practices. (Elective)

PHAR 534. Introduction to Geriatric Issues in Pharmacy Practice 3 credits
The goal of this course is to provide the foundation for competent, compassionate care of older patients. This foundation involves attitudes, knowledge, and skills that are needed to care for the elderly. Specific course topics will focus on the social, economic, emotional, and ethical issues geriatric patients face in today’s society. (Elective)

PHAR 535. Introduction to Psychiatric Pharmacy 3 credits
Introduction to Psychiatric Pharmacy takes a global view of mental health illnesses and its treatment. The historical perspective of the treatment of the mentally ill and the growth and increased compassion that has now become a standard expectation in the
treatment of mental disorders will be presented. The goal of the course is to provide introductory and foundational knowledge for competent, compassionate, and empathetic care of patients with mental illnesses. Course content covers the identification of what encompasses mental health disorders as classified by the Diagnostic Standards Manual, Fifth Edition (DSM-V) and the general treatment of the most common mood disorders, substance abuse disorders, thought disorders, and cognitive disorders. The use of visitation to mental health support groups, historic or contemporary mental health institutions, guest lecturers, and viewing of contemporary movies that portray important issues associated with persons afflicted with mental illnesses and the effect on family, caregivers, and society at large may be incorporated into the activities of the course. Ultimately, students enrolled in the course will be provided with content designed to provide them with sufficient information to have the appropriate attitude, skills, and awareness to avoid stereotypes, stigmas, and other barriers that limit the adequate treatment of the mentally impaired. Students will become familiar with the changing demographics of mental illness and the impact that this will have on their provision of pharmacy care, regardless of their practice environment upon graduation. (Elective)

**PHAR 536 Barriers to Health in Underserved Populations** 2 credits
Barriers to Health in Underserved Populations is a two credit-hour elective designed to improve the student’s awareness and understanding of the obstacles to good health that various underserved populations face, and to introduce students to tools that they can use as healthcare providers to lessen some of these obstacles. An emphasis will be placed on pharmacist-related concerns, including health literacy and access to medications. This course will meet for three hours every week. The first half of class will generally involve a lecture or documentary film, and the second half will be spent in ‘workshops’ where students will practice using the tools or skills they have learned. (Elective)

**PHAR 537. Patient Safety in Pharmacy Practice** 3 credits
This course is designed to introduce the students to patient Safety as related to Pharmacy Practice. The student will learn definitions related to patient safety, learn how to evaluate the medication use system for error potential, discuss and develop safety strategies as related to the medication use system, learn about regulatory agencies involved in patient and medication safety, and learn about quality management resources used in evaluating medication and patient safety. Note: For elective courses additional course enrollment information (class size, year preference, etc.) May be provided at the time of registration. (Elective)

**PHAR 539. Prevention of Drug Diversion and Substance Abuse** 3 credits
This course will introduce the students to the how's and why's of drug diversion and substance abuse including: recognition of drug diversion and substance abuse, types of drugs abused, intervention, treatment considerations, implications to society, the profession and the law. Students will be required to complete several projects and participate in several activities outside of the classroom. (Elective)

**PHAR 544. Veterinary Pharmacy** 3 credits
Veterinary pharmacy provides students with a focused view of drug use in animals. Domestic animals are mainly reviewed but issues related to other animals and topics may occur. Students will focus on how pharmacies and pharmacists can assist in animal healthcare. (Elective)

**PHAR 545. Bad Bugs, Pathogens and Prions** 3 credits
This course will provide students with an understanding of virulence and pathogenesis of medically important microbes commonly seen by pharmacists. Topics will include diseases caused by bacteria, fungi, viruses, rickettsia, ecto and endo parasites. Special emphasis will be given to agents covered in the Phar 710 module (Infectious Disease) and
vaccine preventable microbial and viral diseases. Other topics will include emerging pandemic organisms, and prions. The course will build on material from the first year immunology course (Phar 512) as it relates to immune response to infectious diseases and complement the Phar 710 course. Pharmacy students considering a post graduate residency in infectious disease also will find this course valuable. (Elective)

PHAR 546. History of Pharmacy 3 credits
The profession of pharmacy can trace its origins to prehistoric times. This elective course will focus on the evolution of the profession in the United States from 18th century to present time. Upon completion, the student will be familiar with the general chronology of the profession’s development. Moreover, the students will understand that pharmacy development is part of a larger context of social, political and cultural development in the healthcare realm. Sequential development periods will be presented through readings, lectures and discussions. (Elective)

PHAR 547. Spanish for Pharmacists 3 credits
Spanish for Pharmacists is a beginner to intermediate course that focuses on mastery of oral and written communications in the Spanish language with a special emphasis on vocabulary and conversation beneficial to health care professionals. Students will explore topics relevant to real-world everyday situations. This course is an intensive exercise in learning to effectively, and directly apply linguistic, reading and writing skills in the target language. The curriculum focuses primarily on oral listening and speaking communication skills during class sessions. The application of reading and writing skills will be mostly self-directed and addressed in out-of-class assignments, activities, and projects. Prerequisite: one or more years of general high school and/or Advanced Placement Spanish. (Elective)

PHAR 548. Personal Financial Planning 3 credits
The goal of this course is to provide pharmacy students with a foundation in the various aspects of Personal Finance. Research shows that those students who take a Personal Finance course early in their lives accumulate approximately one year’s salary more in net worth than those who do not take one (Garman et al., 1998). Students will learn basic financial planning skills via a process that will give them both the competence and confidence to prudently manage their savings, budgets, and debt. In addition, they will learn about the different types of insurance. Finally, a significant amount of time will be spent on the different types of investments, risk assessments, and retirement planning. Most students taking this course will likely never have purchased a house, invested money for retirement, or purchased a home. After taking this course, they will feel more competent and confident in doing these. The ultimate goal is to place students on the path to become financial independence, and to give back to their communities through philanthropy. (Elective)

PHAR 549. Leadership & Advocacy for Pharmacy Practice 3 credits
This course will examine the importance of leadership as it relates to pharmacy practice, advocacy, and patient care; and is specifically designed for student pharmacists to enhance their ability to become effective leaders in the practice of pharmacy. The objective of this course is not to build a leader, rather to augment the characteristics the particular leader possesses. Students have the opportunity to partake in a variety of self-assessment, leadership, and advocacy activities including the development of a proposal with implementation plan to address a pharmacy-related issue and participation in an advocacy campaign. (Elective)
PHAR 550. Introduction to Global Pharmacy Practice 3 credits
This course will introduce P1 P2 and P3 professional year students to the practice of pharmacy throughout the world. Differences in pharmacy practice between the United States and other countries will be highlighted. In addition, different cultural influences on the practice of pharmacy within the United States will be discussed. Students will get the opportunity to communicate with pharmacists and pharmacy students from various countries. This type of exposure and discussion may help form awareness that will prepare a student for further global pharmacy opportunities. This course will be highly discussion-based and is ideal for students who are interested in pursuing international rotations. (Elective)

PHAR 551. Everybody with Diabetes Counts 3 credits
Peer educator training in this course will prepare student pharmacists to deliver an evidence-based, diabetes education curriculum model – Diabetes Empowerment Education Program (DEEP). DEEP is a part of Everyone with Diabetes Counts (EDC) which is a health disparities reduction program for persons with diabetes. Students will learn about the scope of pre-diabetes and the diabetes epidemic. They will gain an understanding of the causes, diagnosis, and management of pre-diabetes and diabetes, principles of adult education, DEEP teaching activities, and program planning, implementation and evaluation, ultimately preparing them to offer diabetes self-management education and support (DSMES) to the community using the DEEP curriculum. Upon completion of the DEEP Peer Educator training requirements, students will be required to assist with and teach in DSMES community workshops. Students will receive a signed Recommendation for Certification upon completion of all course requirements. (Elective)

PHAR 597. Professionalism and Academic Success in Pharmacy School 3 credits
This class will help the student develop effective study skills and professional habits to improve his/her performance at the graduate/professional academic level. Through guided exercises, the student will be able to enhance his/her abilities in studying, oral and written communication, stress and time management and leadership. The course will be delivered as a “flipped classroom” or hybrid course. Students will meet in seat 90-minutes per week. However, they will be expected to have completed all course readings and view video lectures prior to class.

PHAR 598. & PHAR 599. P1 e-Portfolio 0 credit
These courses are designed to allow the P1 student pharmacist to complete their e-Portfolio as required for graduation and progression in the pharmacy program. The courses have been designed to meet the 2016 ACPE Standards and 2013 CAPE Outcomes for Pharmacy Education.

PHAR 610. Pharmacokinetic Principles and Clinical Application 3 credits
Pharmacokinetics Principles presents the theoretical mathematical and functionally dependent physiologic relationships that comprise the quantitative basis for determining patient-specific and drug dosage regimens. This course emphasizes interpreting the (1) rate or time course of drug absorption and elimination, and (2) extent of in vivo distribution from data, graphs, and equations to calculate, identify, and monitor safe and therapeutically effective drug in plasma concentrations, especially for narrow therapeutic range drugs. Clinical application of these principles is also covered in this course. Pre-requisite PHAR 514.
PHAR 611L. Pharmacy Skills Lab III 1 credit
The purpose of this course is to orient the student pharmacist to select skills necessary for contemporary pharmacy practice. Topics will include technical aspects of dispensing, communications, medication errors, controlled substances, dispensing to pediatric and geriatric patients, basic patient assessment, third party reimbursement, and supervisory skills. Pre-requisites: successful completion of all required P1 coursework.

PHAR 612. Basic Principles of Pharmacology I 4 credits
The basic biological mechanism of therapeutic agents used to treat diseases will be presented and discussed. Importance will be placed on basic pharmacologic principles of pharmacodynamics and cellular processes that underlie understanding a rational approach to therapeutics. Prerequisites: PHAR 512, PHAR 513, PHAR 520.

PHAR 614. Medicinal Chemistry 3 credits
Medicinal chemistry is the application of organic chemistry to biological and pharmaceutical sciences. The course encompasses drug discovery, identification and preparation of pharmaceuticals, the structure activity relationships used to define or enhance drug action, xenobiotic metabolism and the interpretations of pharmaceutical mechanisms of action at the molecular level. Pre-requisites: PHAR 513, PHAR 520.

PHAR 615L. Introductory Pharmacy Practice Experience II 4 credits
Introductory Pharmacy Practice Experience II (IPPE II) is intended to provide a more in depth experience in community practice for second year pharmacy students. Early exposure to practice will make didactic instruction more relevant by providing opportunities to participate in pharmacist patient care activities (under the direct supervision of a preceptor) as well as managerial practices. Students will be placed in a community practice setting for 160 hours and will be enrolled in this course in either the fall or spring semester of the second professional year.

PHAR 626L. Introductory Pharmacy Practice Experience III 2 credits
Introductory Pharmacy Practice Experience III (IPPE III) is intended to provide an overview of institutional pharmacy practice to second year pharmacy students. Early exposure to practice will make didactic instruction more relevant by providing opportunities to participate in pharmacist patient care activities (under the direct supervision of a preceptor) as well as managerial practices. Students will be placed in an institutional practice setting for two weeks (80 hours) during the summer between P2 and P3 year. Prerequisites: PHAR 525L, PHAR 615L.

PHAR 629. Health Care Communications and Ethics 3 credits
This course is designed to help student pharmacists enhance the communication skills they need to deliver quality patient care and to function as a health care practitioner in a global society. This course includes comprehensive assignments and discussions that cover a variety of communication skills necessary for success as a healthcare practitioner to include; the interpersonal and inter-professional communication skills of listening and responding and the provision of health information orally and in writing to a variety of audiences. The course will focus on the development of individual skills through application of knowledge gained through lectures and active learning opportunities. In addition, this course will provide a review of ethical theories, principles and tools for ethical decision-making in the health care environment.
PHAR 630. Pharmaceutical Biotechnology 3 credits
Pharmaceutical Biotechnology is intended to provide the student with a working knowledge of the preparation, stability and formulation of different protein and peptide drugs such as antisense agents, transgenic therapeutics and gene therapy. Current FDA approved biotechnology drugs such as human insulin, growth hormones and interferons will be discussed. Note: For elective courses additional course enrollment information (class size, year preference, etc.) may be provided at the time of registration. (Elective)

PHAR 631. Human Cancer 3 credits
This course provides students with knowledge of the fundamental principles of biology of cancer, therapeutic agents, the identification, enrollment and the mechanism of clinical trials, nuclear pharmacy, and patient treatment. Discussions of the scientific literature in the field will complement didactic lectures. Discussion of aspects of cancer epidemiology, prevention, and principles of drug action in cancer management will be part of the course. Note: For elective courses additional course enrollment information (class size, year preference, etc.) may be provided at the time of registration. (Elective)

PHAR 632. Advanced Topics in Pharmacogenomics 3 credits
This course extends and applies the concepts presented in the Human Response to Disease course. The goal is for students to develop a deeper understanding and working knowledge regarding current pharmacogenomic issues that influence the drive toward individualized medicine. In the near future, pharmacists will be required to evaluate current scientific and lay media reports on genetic variations that produce variability in expression of disease and response to treatment. The course will focus on the evaluation of scientific and lay media reports, application of this knowledge to predict variable patient outcomes, and translate the information to facilitate counseling to patients as individuals. Note: For elective courses additional course enrollment information (class size, year preference, etc.) may be provided at the time of registration. (Elective)

PHAR 633 Advanced Clinical Research in Pharmaceutical Industry 3 credits
This course introduces Pharm D students to the principles and practice of clinical research. The course covers both basic and advanced topics for those who want to pursue a career in the pharmaceutical industry or the FDA. It covers a variety of topics linked to clinical research like design of clinical trials, writing clinical protocols, management of patient samples, biostatistics, ethics, legal concerns, regulatory issues, financial management, working with Institutional Review Boards, clinical site management, data management and the role of pharmaceutical industry in clinical research. (Elective)

PHAR 636. Diabetes Education and the Patient 3 credits
Students will learn how to relate on the patient level with respect to important disease states and gain a strong understanding of the importance of patient education and how to impart knowledge about diabetes self-management to the patient. The curriculum is based on national medical care and self-care education guidelines. The course is modeled on the principles and topics outlined through the certified “Diabetes Empowerment Education Program (DEEP).” Topics are taught at the basic patient level of understanding including the use of techniques to help patients understand their disease and methods to self-manage their disease. (Elective)

PHAR 640. Pharmacotherapy I 8 credits
The goal of this course is to introduce the pharmacy student to the pharmacotherapeutic basis of disease management. This course is designed to provide a comprehensive overview of cardiovascular, musculoskeletal and renal diseases. Students should
understand, integrate and apply the information and skills obtained in pathophysiology, pharmacology, medicinal chemistry, biochemistry, immunology and pharmacokinetics to develop and implement a rational drug therapy plan. Case studies will be utilized to allow students to apply their learning and enhance their patient care skills by selecting appropriate therapeutic agents. Pre-requisites: Successful completion of all coursework through semester 3. Co-requisite: PHAR 641.

PHAR 641. Basic Principles of Pharmacology II 4 credits
A continuation of PHAR 612 this course focuses on the biological mechanisms of therapeutics used to treat diseases. Importance will be placed on basic pharmacodynamic and cellular processes that are the foundation for understanding and identifying rational approaches to drug therapy recommendations. Pre-requisite: PHAR 612.

PHAR 643. Strategies for Positive Health Outcomes 3 credits
The goal of this course is to challenge the student to take creative action to overcome the barriers to providing comprehensive pharmaceutical care. The contemporary pharmacist must not only be focused on the delivery of an accurate product, but responsible for the delivery of pharmaceutical care. Many barriers exist which must be identified and overcome in order to effect positive health outcomes. The course describes forces within and between individuals and societies which influence health. Topics covered include the psychosocial aspects of care, public health, cultural competency, health literacy, basic epidemiology among others.

PHAR 645 Clinical Assessment of Laboratory and Diagnostic Studies 3 credits
The objective of this course is to introduce the student pharmacist to all aspects of lab work that apply to clinical practice. This course is designed to provide essential information on common laboratory tests used to screen for or diagnose diseases and monitor the effectiveness and safety of treatment and disease severity. (Elective)

PHAR 698. & PHAR 699. P2 e-Portfolio 0 credit
These courses are designed to allow the P2 student pharmacist to complete the e-Portfolio as required for graduation and progression in the pharmacy program. The courses have been designed to meet the 2016 ACPE Standards and 2013 CAPE Outcomes for Pharmacy Education.

PHAR 715. Pharmacy Practice Management 2 credits
This course is designed to help change your behavior and improve your management skills by using active involvement strategies. Social science research has found that a powerful way to change behavior and internalize information is to turn students into teachers. People learn material better and become more competent in demonstrating and applying it if they are given an opportunity to teach it. Students in this class, therefore, will be given opportunities to become teachers of management skills.

PHAR 716L. Introductory Pharmacy Practice Experience IV 1 credit
Introductory Pharmacy Practice Experience IV (IPPE IV) is designed to provide an introduction to establishing the appropriate delivery of pharmaceutical care services to patients. Topics will focus on the role pharmacists play in pharmaceutical care, how those roles may be achieved, and the process of completing comprehensive medication reviews. Students will apply previous knowledge learned to further develop the skills and attitudes necessary to complete comprehensive medication reviews and will participate in interprofessional experiences where students will work with the Physician Assistant students on case studies and other activities. Upon completion of this course, students should have gained the basic knowledge, abilities, and attitudes necessary for developing pharmaceutical care practices. This course will provide 39 IPPE hours (30 hours of
clinical patient care experience under the direct supervision of a preceptor and 9 hours of interprofessional simulation).

PHAR 718. Pharmacogenomics and Medical Genetics 3 credits
Human response to Disease will explore how DNA variations are important in understanding the genetic basis for disease and individual responses to environmental factors, as well as for such normal variations in biological processes as development and a drug response. The course will also focus on the psychosocial response to the disease process and physiologic markers of that process.

PHAR 719. Pharmacotherapy II 8 credits
The goal of this course is to build upon the skills learned in PHAR 640. Specifically, this course is designed to provide a comprehensive overview of the pharmacotherapeutic management of endocrine, gastrointestinal, respiratory and neurologic/psychiatric diseases. Students should understand, integrate and apply the information and skills obtained in pathophysiology, pharmacology, medicinal chemistry, biochemistry, immunology and pharmacokinetics to develop and implement a rational drug therapy plan. Case studies will be utilized to allow students to apply their learning and enhance their patient care skills by selecting appropriate therapeutic agents. Pre-requisites: Successful completion of all coursework through semester 4, PHAR 640, PHAR 641.

PHAR 725. Pharmaceutical Marketing 2 credits
This course will provide a working knowledge of the marketing principles for pharmacy practice, to include marketing techniques, operations, human resources, quality improvements, service marketing management, prescription drug promotion and pharmaceutical marketing issues currently of interest to the industry and the practice of pharmacy. Specifically, this course will allow students to apply the knowledge and skills necessary to establish and market pharmaceutical care services in the community pharmacy setting.

PHAR 728. Pharmacy Law 3 credits
Students will learn the federal laws governing the practice of pharmacy. The course will emphasize introductory legal concepts that encompass the rights and responsibilities of the pharmacist and their practical application.

PHAR 729. Geriatric Pharmacotherapy and Pharmaceutical Care 3 credits
This course is designed to provide current information regarding pharmacotherapy and pharmacy care for the geriatric population. It is intended to build upon existing pharmacotherapy knowledge and prior course content. Case-based learning will be used to develop problem solving and critical thinking skills, particularly in regard to the selection and monitoring of medication therapies. Special emphasis will be placed on preventing and detecting medication-related problems and geriatric syndromes. This course will also emphasize the broader aspects of care for geriatric patients, including psychological, sociological, and financial elements that influence therapy management. The interdisciplinary team approach in caring for the geriatric population will be incorporated, along with the pharmacist’s role in various care settings. (Elective)

PHAR 730 Community Pharmacy Practice and Management 3 credits
This course is designed for students to learn the responsibilities and duties of a pharmacy manager. Students will be expected to develop their own “pharmacy” and use real-life examples and simulation activities to solve issues that challenge a pharmacist in charge. Areas covered will include, operations management, regulatory functions, human resource, budgeting, marketing, and value added services. (Elective)
PHAR 732. Adverse Drug Reaction 3 credits
This course is an in-depth study course for P3 students to provide a comprehensive evaluation of drug induced reactions and diseases. This course prepares the student for an optional P4 elective rotation on adverse drug reactions as well as a greater understanding of adverse reactions for patient care in clinical settings (i.e., pharmacy residency, clinics, hospital pharmacy). Topics covered include (but not limited to) adverse drug reaction definition, reporting, prediction, treatments, mechanism of action, documentation, and possible litigation. (Elective)

PHAR 733. Palliative Care 3 credits
This course will provide knowledge and skills for the pharmacist to function as an integral member of the multidisciplinary team caring for the palliative care patient. Critical thinking and communication skills will be emphasized. Topics for this course include general principles of palliative care, pain and symptom management and the pharmacoeconomic issues that influence the delivery of pharmaceutical care in the palliative care or hospice setting. (Elective)

PHAR 734. Advanced Medical Communication 3 credits
Advanced Medical Communications will provide students with knowledge and skills in basic medical writing, including punctuation, grammar, and writing style, and various communications styles. Students will participate in a variety of communications activities using their basic skills, including writing blogs, newspaper articles, patient education materials, presenting in small and large formats, and creating videos for patient education. Additionally, students will be introduced to career options in medical communications. (Elective)

PHAR 735. Exploring Postgraduate Training 3 credits
The objective of this course is to introduce and prepare students for navigating the process of researching, applying and obtaining a postgraduate training opportunity. As positions are becoming more competitive it is necessary to be equipped with tools to ensure you stand out in the applicant pool. This course will explore what postgraduate training opportunities are available, how to prepare for them and how to excel once obtaining one. (Elective)

PHAR 736. Advanced Topics in Pharmacotherapy 3 credits
The objective of this course is to challenge the pharmacy student to expand their baseline pharmacotherapy knowledge gained in the pharmacotherapy courses through the study of advanced therapeutic topics. For each therapeutic area studied, students will be expected to exhibit skills in thinking and decision making, provide effective communication both with other healthcare providers and patients, and enhance self-learning skills. Students should understand, integrate, and apply the information and skills obtained from pathophysiology, pharmacology, medicinal chemistry, and pharmacokinetics to develop and implement a rational drug therapy plan. Students will be responsible for attending each class session and completing application-based case scenarios and topic debates as assigned. (Elective)

PHAR 737. Pharmacoepidemiology 3 credits
This course is designed to assist students to understand concepts of pharmacoepidemiology, how pharmacoepidemiology studies are conducted; and how to interpret findings. Based on the clinical pharmacology knowledge and epidemiology concepts, the course will include the process for drug approval, methods for identification and attribution of adverse drug events, current understanding of the epidemiology of
adverse drug events; study design and data source for pharmacoepidemiology studies; and application of these studies in the medication decision-making process. (Elective)

**PHAR 738. Ambulatory Care Pharmacy** 3 credits
By participating in this course, students will learn to apply problem solving, communication, and writing skills to patient cases, journal articles, and debate topics related to the outpatient setting. A team-based approach to learning will be utilized to provide students with an opportunity to discuss therapeutic problems as a group of healthcare professionals, as is seen in the “real-world” setting. Class sessions will consist of individual and group quizzes followed by a therapeutic topic presentation and case discussion. Students will work in groups during the class session to complete the assigned case and submit a group SOAP note. Active participation is expected throughout the class session and will be measured by quizzes and group peer evaluations. Course topics include, but are not limited to, pharmacist management of chronic disease states commonly encountered in the ambulatory setting (hypertension, diabetes, hyperlipidemia, heart failure, etc.), billing for pharmacy services, transitions of care, and health literacy. (Elective)

**PHAR 739. Emergency Medicine** 3 credits
Emergency Medicine is an evolving and increasingly recognized practice area for clinical pharmacists. As interest and professional opportunities continue to expand in this therapeutic arena, it is imperative for students to become cognizant of the various aspects of this unique specialty. In addition, the practice of emergency medicine is a collection of various therapeutic areas. This course will not only serve to expose the learner to many new and exciting topics but also serve as a refresher of many topics that are briefly covered in the regular curriculum with added emphasis on the rapid treatment of the undifferentiated patient. (Elective)

**PHAR 740. Pharmacotherapy III** 8 credits
The goal of this course is to build upon the skills learned in PHAR 640 & 719. Specifically, this course is designed to provide a comprehensive overview of the pharmacotherapeutic management of self-limiting diseases (OTC/self-care), infectious diseases, hematologic/oncologic diseases and the management of conditions associated with certain special populations including pediatrics and geriatrics. Students should understand, integrate and apply the information and skills obtained in pathophysiology, pharmacology, medicinal chemistry, biochemistry, immunology and pharmacokinetics to develop and implement a rational drug therapy plan. Case studies will be utilized to allow students to apply their learning and enhance their patient care skills by selecting appropriate therapeutic agents. Pre-requisites: Successful completion of all coursework through semester 5, PHAR 719.

**PHAR 741. Pharmacoeconomics and Outcomes Research** 2 credits
Topics addressed in this course will include the many facets of pharmacoeconomics in pharmacy & healthcare settings, including the use of pharmaceuticals, appropriateness and quality of care, patient outcomes, patient satisfaction with care, costs of both appropriate and inappropriate medication use, healthcare policies related to health care and pharmacoepidemiological considerations. Moreover, the course will examine the respective roles and behaviors of the healthcare professionals (e.g., physicians, pharmacists, nurses, allied health) involved in patient care and the influence of healthcare-related organizations (e.g., managed care, health maintenance organizations, public and private insurance, pharmaceutical manufacturers) on health outcomes.
PHAR 742. Advanced Drug Literature Evaluation 2 credits  
This course provides the student with advanced problem-solving skills in drug information and related material. Course content is divided between topic discussion and developing new skills that are applied and practiced through active learning activities. Each student will complete a Journal Club presentation as a requirement for the course. Pre-requisites: Completion of all required coursework through semester 5 of the curriculum.

PHAR 798. & PHAR 799. P3 e-Portfolio 0 credit  
These courses are designed to allow the P3 student pharmacist to complete the e-Portfolio as required for graduation and progression in the pharmacy program. The courses have been designed to meet the 2016 ACPE Standards and 2013 CAPE Outcomes for Pharmacy Education.

PHAR 821-828. Advanced Pharmacy Practice Experiences and Course 40 credits  
Eight advanced pharmacy practice experiences in various practice environments that present the student with the opportunity to engage in the advanced practice of pharmacy in a structured and supervised environment. Prerequisites: Students must have achieved fourth year professional status and successfully completed all academic and programmatic requirements of the first three professional years.

Ambulatory Care Experience 5 credits  
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Activities designed as part of this course give the student experience in an ambulatory care practice setting.

Acute Care/Internal Medicine Experience 5 credits  
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Activities designed as part of this course give the student experience in an in-patient practice setting.

Community Care Experience 5 credits  
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Activities designed as part of this course gives the student experience in a community clinical care practice setting.

Institutional Practice Experience 5 credits  
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Activities designed as part of this course give the student experience in an institutional (hospital) practice setting.

Selective Experience I 5 credits  
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the
supervision of the faculty (full-time, part-time or affiliate) member. Students will complete either a clinical or management rotation in a community or institutional setting. Placement will be determined based on the student’s stated preference.

**Selective Experience II**  
5 credits
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Students will complete either a clinical or management rotation in a community or institutional setting. Placement will be determined based on the student’s stated preference.

**Elective Care Experience I**  
5 credits
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member.

**Elective Care Experience II**  
5 credits
Students will be assigned a pharmacist preceptor for a five-week equivalent in the pharmacist’s practice site. Each equivalent week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member.

**PHAR 807. Advanced Health Ethics**  
1 credit
This course is an interprofessional ethics and communication capstone building upon ethics content and exercises completed in the first three years of the pharmacy curriculum. Taken concurrently with physician assistant and/or nursing students. It is designed to provide an environment for identifying ethical dilemmas and opportunity for thoughtful deliberations and on-line dialogue. It is delivered via written assignments, on-line discussion groups, and culminates with production of a scholarly paper in which the student is expected to clearly identify an ethical dilemma and demonstrate the ability to make informed and responsible decisions related to this issue. Students use an ethical decision-making model and use ethical concepts and the ethical code for pharmacists as guidelines in working through this assignment. In the final week of the semester, students present their paper in an on-campus venue open to the campus community.

**PHAR 812. Advanced Certification II-Medication Therapy Management Certification**  
2 credits
Students will participate in pre-determined certification program and receive a certificate upon successful completion of the course requirements.

**PHAR 899. ePortfolio**  
1 credit
This course represents the culmination of the student’s e-Portfolio. During this course each P4 student will successfully complete an oral defense of the e-Portfolio. The course has been designed to meet the [2016 ACPE Standards](https://www.acpe-accredit.org/Standards) and [2013 CAPE Outcomes for Pharmacy Education](https://www.cape-accredit.org/Outcomes).
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Bowles, Sandra S., Dean Emeritus, Bert Bradford School of Health Sciences, Professor of Nursing and Assistant Dean for Assessment & Special Projects, School of Pharmacy.  
BSN, University of Pittsburgh; MNED, University of Pittsburgh; EdD, Vanderbilt University. (1964-78, 1982-)

John Christian, Director of University Bands  
BM University of Wisconsin; MA Central Michigan University.

Lucas, Kristy, Professor of Pharmacy Practice and Associate Dean of Academic Affairs  
PharmD, Campbell University. (2010- )

Sun, Xiaoping, Professor of Chemistry  
BS, Peking University; MS, Peking University; PhD, University of New Brunswick. (2001- )

White, Douglas, Professor of Leadership and Professional Development  
BA, Houghton College; M.R.E., Trinity International University; EdD, The Southern Baptist Theological Seminary. (2013- )

Wylie, Ruth, Professor and Program Director, Doctor of Executive Leadership Program  
BS, Virginia Polytechnic Institute and State University; MS, Drake University; PhD, West Virginia University. (2014- )

ASSOCIATE PROFESSORS

Bowyer, David, Associate Professor and Chair, Pharmacy Practice, School of Pharmacy  
BS, West Virginia University. (2005- )

Bradley, Tracy L., Dean, Morris Harvey School of Arts & Sciences and Associate Professor of Interior Design  
BS, MS, Minnesota State University-Mankato; EdD, Marshall University. (1997- )
Bruce, Amy F., Associate Professor of Nursing, Director of Nursing
BSN, RN, University of Charleston; MSN, Marshall University Graduate College; DNP West Virginia University School of Nursing. (2018-present)

Cardell, Annie, Associate Professor of Psychology
BA: Armstrong Atlantic State University; MS, PhD, Virginia Polytechnic Institute and State University. (2013-)

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AAS, Catawba Valley Community College; BA Ashford University; MS Mountain State University; DEL University of Charleston. (2015-)

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BS, Cairo University, MS, University of Southern California, PhD, University of Maryland. (2017-)

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Gonzalez, Matthew D., Associate Professor and Program Director of Cybersecurity
BBA, University of Texas; MBA, St. Mary’s University, MISM, Keller Graduate School; PhD, Capella University. (2015-)

Herdman, Michelle L., Associate Professor of Pharmaceutical and Administrative Sciences
BS, Bridgewater College; PhD, Marshall University. (2006-)

Hoffman, Jennifer G., Associate Professor of Mathematics and Director, Math Program
BS University of Charleston; MA, Marshall University. (1997-) 

Jackson, Theresa H., Associate Professor of Nursing
ASN, RN, Ashland Community College; BSN, Marshall University; MSN, University of Phoenix; PhD, Nova Southeastern University. (2018-)

Janisch, Joseph H., Associate Professor of Music and Director, General Studies Program
B.M., Ashland University; M.M., Bowling Green University; DM, The Ohio State University. (1999-)

King, J. Suzanne, Associate Professor of Accounting and Program Director, Accounting Program
BS, West Virginia University; CPA; MBA, West Virginia College of Graduate Studies. (1980-)

Lathan, Calvin, Associate Professor of Leadership and Professional Development
BS, University of the State of New York; MA, Webster University; EdD, University of Southern California. (2014-)

Linger, Rebecca, Associate Professor of Pharmaceutical and Administrative Sciences
BA, BS, San Francisco State University, PhD, Purdue University. (2006-)

Lonam, Matthew W., Associate Professor of Leadership
BA, Loyola College; MA, The George Washington University; 1999 PhD, University of Missouri. (2015-)

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BS, MS, EdD, Marshall University. (2006-)

Pruegger, Brian, Associate Professor of Business and Program Director, Sport Business, Sport Analytics, and Sport Media Programs
BA, University of Calgary; MS, MS, Lamar University; PhD, Florida State University. (2015-)
Reed, Bruce, Associate Professor of Leadership
AA, Parkersburg Community College; BA, West Virginia Wesleyan College; MDiv, D.Min., United Theological Seminary; MA, West Virginia Graduate College; D.Min, Wesley Theological Seminary. (2017-)

Retzlaff, Dale P., Associate Professor and Program Director, Organizational Leadership
AS, The Dallas Community College; BA Mountain State University; MSSL Mountain State University; DEL, University of Charleston. (2015-)

Robinson, John C., Associate Professor of Biology and Director, Pre-Professional Programs
BA, Malone College; MD, Medical College of Ohio. (2003-)

Robinson, Jessica, Associate Professor of Pharmacy Practice
PharmD; West Virginia University. (2010-)

Schliesser, Shelley, Associate Professor of Pharmacy Practice
BS, PharmD, University of Toledo. (2006-)

Serafin, Juliana, Associate Professor of Chemistry and Director, Chemistry Program
BS West Virginia University; AM, PhD Harvard University. (2008-)

Shin, Kim I., Associate Professor of Business and Department Chair, Undergraduate Business Programs
BA, University of Cincinnati; MA, PhD, The Ohio State University. (2007-)

Siddig, Aladin A., Associate Professor of Pharmaceutical and Administrative Sciences
BS, University of Khartoum; MS, Jackson State University; PhD, Mercer University. (2007-)

Smith-Amburgey, Mindy M., Associate Professor of Radiologic Science; Associate Dean of Health Sciences; Chair, Department of Health Sciences; Director Radiologic Science
BS, RT (R) (M), ARDMS, MBA, DEL, University of Charleston. (2005-)

Stoecklin, Melinda J., Associate Professor of Nursing
ASN, RN, Columbus State Community College; BSN, West Virginia University Institute of Technology; MSN, Marshall University. (2018-)

Testman, Julie, Associate Professor of Pharmacy Practice and Director of Experiential Education
PharmD, West Virginia University. (2006-)

Watson, Mark B., Associate Professor of Biology and Chair of Natural Sciences and Mathematics Department
BS, MS, Marshall University; PhD, University of Georgia. (2004-)

Wildt, Jay, Associate Professor of Natural Science
A.A., University of Charleston; BA, West Virginia University Institute of Technology; M.BA, University of Charleston; Graduate Study, Marshall University. (2001-)

Yeager, Raymond, Associate Professor of Art and Director, Art Program
BFA, Valdosta State University; MFA, University of Florida. (2011-)

ASSISTANT PROFESSORS

Acree, Lindsay, Assistant Professor of Pharmacy Practice
PharmD, University of Charleston. (2014-)

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BA, West Virginia State College; MA, West Virginia Graduate College; MLS, University of Kentucky. (2004-)

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Baldwin, Travis F., Assistant Professor of Education
BS, Indiana Wesleyan; MA, West Virginia University. (2016- )

Bannister, Debbie, Assistant Professor and Director of First Year Program & Advising Center
BS, University of Charleston; MA, University of Phoenix. (1986- )

Barnett, Kristi, Assistant Professor of Radiologic Science
AAS University of Charleston; R.T. (R) (MR); BS Weber State University; MPH, West Virginia University.

Bell, Nicollette, Assistant Professor, Director of Health Promotion
BA, MA Marshall University. (2017- )

Clark, Brittany, Assistant Professor and Clinical Coordinator, Physician Assistant Studies
MSPA, PA-C, Mountain State University. (2016- )

Cook, Stephen J., Assistant Professor of Pharmacy Practice
PharmD, University of Charleston. (2012- )

Cuckler, Indre, Assistant Professor of University Programs
BS, MA, Mountain State University; EdD, Fielding Graduate University. (2015- )

Dalporto, Jeannie, Assistant Professor of English and Director, English Program
BA, MA, PhD, West Virginia University. (1996- )

Davis, Michelle, Assistant Professor of Physician Assistant Studies
BS, PA-C, College of West Virginia. (2017- )

Deel, Bradford, Assistant Professor of Political Science and Director, Political Science Program
BA, West Virginia State College; MA, Marshall University; J.D., West Virginia University School of Law. (2008- )

Dettra, Jennifer, Assistant Professor of Pharmacy Practice
BS The Ohio State University; PharmD, The Ohio State University College of Pharmacy. (2014- )

Doak, Barbara, Assistant Professor of Pharmacy Practice
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Dunlap, Hallie, Assistant Professor of Social Sciences and Director, Individualized Major – Multidisciplinary Studies
B.A, West Virginia University; MS, The Pennsylvania State University. (2008- )

Ellis, Anitra, Assistant Professor of Nursing
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Elkins, Angie, Assistant Professor and Director of Didactic Education, Physician Assistant Studies
MSPA, Mountain State University. (2017- )

Embrey, Sarah, Assistant Professor of Pharmacy Practice
Pharm. D., West Virginia University. (2015- )

Farrish, Melissa, Assistant Professor of Business and Program Director for Online Undergraduate Business Programs
Ferris, Frederick, Assistant Professor of Business and Program Director, Master of Business Administration Program
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BA, Johns Hopkins University; PharmD University of California, San Francisco. (2015- )
Giaimo, Anthony J. III, Assistant Professor of Leadership and Program Director of Crisis & Emergency Leadership Program
BS Temple University; MSSL, Mountain State University; FBI National Academy, University of Virginia. (2016 - )
Haas, David, Assistant Professor of Chemistry
BA, BS, Miami University; MS, PhD, University of Cincinnati. (2005 - )
Hall, Leah, Assistant Professor of Pharmacy Practice and Executive Director of Assessment
PharmD, West Virginia University. (2013- )
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LPN, Logan-Mingo School of Practical Nursing; ADN, RN, Southern West Virginia Community and Technical College; BSN, Kaplan University School of Nursing; MSN, Chamberlain University School of Nursing. (2017- )
Hess, Sarah. Assistant Professor of Leadership
BA Ashford University; MS Mountain State University; DEL University of Charleston. (2014- )
James, Lori. Assistant Professor of Mathematics.
BS, West Virginia University; MA, Marshall University. (2011–2013, 2014 - )
Jimenez-Esquelin, Aida, Assistant Professor of Biology
PhD, Colorado State University. (2013- )
Jensen, Melissa, Assistant Professor of Physician Assistant Studies.
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Kanakanui, Betsy, Assistant Professor of Nursing
Associate Degree in Visual Communications, Art Institute of Pittsburgh; ADN, RN, Bluefield State College; BSN, Clemson University; MSN, University of South Carolina. (2018- )
Kemp, Thomas H., Assistant Professor of Leadership
BA, MA, PhD, University of Utah. (2019- )
Kennedy, Hannah, Assistant Professor of Integrated Communication and Director, Integrated Communication Program
BA, West Virginia Wesleyan College; MA, Marshall University. (2008- )
Knight, Michelle, Assistant Professor of Pharmacy Practice and Executive Director of Enrollment and Admissions
PharmD, Wilkes University. (2015- )
Layne, Melissa, A., Assistant Professor of Nursing, Charleston Campus Clinical Coordinator
ADN, RN, West Virginia University-Parkersburg; BSN, MSN, Marshall University School of Nursing; MSN. (2008- )
Leffler, Michaela, Assistant Professor of Pharmacy Practice
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BSN, University of Charleston; MSN-FNP, Marshall University. (2014- )
Mahoney, Judy L., Assistant Professor of Nursing
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BA, Spring Arbor College; MS, Central Michigan University; PhD, Andrews University. (2019- )

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Newman, Rebecca, Instructor of Library Science
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INSTRUCTORS

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BS Pharmacy, West Virginia University (2012- )

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Dotson, Kimberly, Instructor of Nursing LPN, Garnett Career Center; BSN, Mountain State University; MSN Marshall University Graduate College. (2016-)

Drabish, Kerry, Instructor of Nursing
BSN, RN, Marshall University School of Nursing; MSN, FNP-BC, Marshall University Graduate College. (2019-)

Fisher, Kara, Instructor of Political Science
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BA, University of Charleston; M. Arch. I, University of North Carolina, Charlotte. (2012-)

Halstead, Eric J., Instructor of Radiologic Science
AS, University of Charleston; R.T. (R) (Q.M.), BS, University of Charleston. (1993- )

Holcomb, Sarah, Instructor of Radiologic Science
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Horsley, Steven E., Instructor of Leadership and Program Director, Frontline Leadership Program
BS, Excelsior College; MSSL, University of Charleston, WV. (2015 -)
Hoyer, Amy, Instructor of Nursing  
BA Psychology, West Virginia State College; BSN, RN, University of Charleston. (2018- )

Hughes, Anna, Instructor of Library Science  
BA, Shepherd College; MA West Virginia University; MLIS, University of Pittsburgh. (2009- )

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Hurt, Jacqueline, Program Director, Occupational Therapy Assistant  
AS, BS, Mountain State University; MA, University of Southern California. (2013- )

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BS West Virginia University, MS University of Kentucky. (2012- )

Lanham, Mackenzie, Instructor of Nursing  
BS, BSN, RN, Marshall University; MSN, Walden University. (2016- )

Nyquist, Michael, Instructor of Athletic Training and Exercise Science, Coordinator of Clinical Services, Head Athletic Trainer  
BS Lees-McRae University, MS East Tennessee State University. (2012- )

Pridemore, Jenny Mae, Instructor and Recruiter, Organizational Leadership Program  
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Treadway, Penny-Jo, Instructor, Radiologic Technology  
BA, Concord University. (2013- )

Ueda, Kenji, Instructor of Athletic Training and Exercise Science, Assistant Athletic Trainer  
BS Chukyo University, BS, MS, Marshall University. (2015- )

Warrington, Rebekah, Instructor for Athletic Training and Exercise Science, Coordinator of Clinical Education, Athletic Trainer  
BS, University of Charleston, MS Marshall University. (2019- )

Wilson, Charles P., Instructor of Radiologic Science  
AS, University of Charleston; R.T. (R) (MR), BA, West Virginia University. (1991- )

**Emeritus Faculty**

Adams, Sarah J., Professor of History Emeritus  
BA, Maryville College; MA, PhD, The Ohio State University. (1975-2017)

Alcazar, Armando, Associate Professor of Business Emeritus (1984-2014)  
BS, University of Charleston; MBA, West Virginia College of Graduate Studies; Doctoral Study, Nova University.

Blackwood, E. Neale, Professor of Mathematics Emeritus, (1965-2010), Grand Marshal (1996-2010)  
BS, Marietta College; MS, EdD, West Virginia University.

Blackwood, Jo. L., Associate Professor of Education Emeritus (2001-2012)  
BA University of Charleston; MS, Ohio University; EdD, Virginia Polytechnic Institute and State University.

Clem, Phillip D., Associate Professor of Biology Emeritus (1995-2012)  
BS, Oakland City College; MS, PhD, Indiana State University.

Goddin, David J., Associate Professor of Radiologic Science Emeritus, Associate University Marshal (1973-2003)  
BA, Alderson-Broaddus College; MA, West Virginia University; R.T. (R.)

Grimsley, William E. Jr., Associate Professor of Computer Information Systems Emeritus (1984-2009)  
BS, West Virginia Institute of Technology; MS, Johns Hopkins University.

AB, Wittenberg University; MA, PhD, University of Pittsburgh; MCRP, The Ohio State University.
Kerr, Joellen A. Associate Professor of Interior Design Emeritus (1983-2010)
BS, West Virginia University; MS, Florida State University.

Lewis, Donna, Library Director Emeritus

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Spiker, Martha S., Professor of Psychology and Chair, Department of Social Sciences and Humanities
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Wilson, Lillian, Professor of English Emeritus (1968-1988)
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B.M., Converse College; MA, PhD, The University of Michigan; M.M., Duquesne University. (1994-2019)

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