



University of Charleston

2020-2021 Academic Catalog

<http://www.ucwv.edu>

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)

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 (AACM)
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)

Mountain East Conference (MEC)
National Association of Colleges and Employers (NACE)
National Association for Developmental Education (NADE)
National Association of Independent Colleges and Universities (NAICU)
National Collegiate Athletic Association / Division 2 (NCAA/D2)
National Council for State Authorization Reciprocity Agreements (NC-SARA)
National League for Nursing (NLN)
Nursing Education Foundation of West Virginia (NEFWV)
Organization for Associate Degree Nursing (OADN) Recording for the Blind & Dyslexic (RFB&D)
State Authorization Network (SAN)
West Virginia Independent Colleges and Universities (WVICU)
West Virginia Rural Health Association
Western Interstate Commission for Higher Education Cooperative for Educational Technologies (WCET)

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.

2300 MacCorkle Avenue, S.E. Charleston, WV 25304-1099	127-B Dye Drive Beckley, WV 25801	1 Sugar Maple Lane Buffalo, WV 25033
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Telephone: (304) 357-4800 or (800) 995-GOUC (4682)

Fax: (304) 357-4715

The provisions within this *Academic Catalog* are not to be regarded as an irrevocable contract between the student and the University of Charleston. The University reserves the right to make and designate the effective date of changes in curriculum, course offerings, fees, requirements for graduation, and other regulations at any time such changes are considered to be desirable or necessary.

Notice of Non-discrimination Policy

The University of Charleston does not discriminate against any person because of any protected class or characteristic including, but not limited to, a person's race, color, religion, sex, sexual orientation, national 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.

The terms of this Catalog may be modified in the University's discretion including, but not limited to, any course offering; the manner, location, or mode of instruction of any course; the physical attendance requirements; the conversion of the grading option for any course or portions thereof; the duration of any course; the experiential learning components and/or requirements; and/or the inclusion, timing or elimination of any portions of any components of any course curriculum.

TABLE OF CONTENTS

ACADEMIC CALENDAR	12
MESSAGE FROM THE PRESIDENT.....	16
THE UNIVERSITY OF CHARLESTON.....	17
The UC Mission	17
History of the University of Charleston.....	18
THE CURRICULUM.....	19
Institutional Learning Outcomes	19
Assessment – To Demonstrate Learning	20
DEGREE PROGRAMS – ACADEMIC MAJORS	22
Statement on Specialized Accreditation	24
Academic Minors.....	24
ENROLLMENT MANAGEMENT.....	26
Undergraduate Admission Requirements	26
Home School Admission.....	27
Adult Learner Fast Track Admissions	28
General Transfer Admission	30
Contract Transfer Students.....	31
Admission to Undergraduate Degree Completion Programs	31
Students Seeking Re-Admission	31
Military Student Admission.....	32
International Student Admission	32
Special Student/Non-Degree Admission	33
Undergraduate Admission and Enrollment Procedures.....	35
Graduate Admission.....	35
Tuition and Fees	36
Room and Board Costs-2020-2021 Academic Year.....	36
Board Rates.....	36

FINANCIAL AID	38
POLICY ON SMOKING AND TOBACCO USE.....	51
ACADEMIC POLICIES	52
Placement	52
Majors.....	53
Individualized Majors	53
General Studies and Multidisciplinary Studies.....	53
Minors.....	54
Concentrations.....	54
Certificates	54
Double Majors	55
Undergraduate Degree Requirements	55
Residency Policy	56
Associate Degree	56
Bachelor’s Degree.....	56
Individualized Major-General Studies Degree (BA or BS).....	56
Individualized Major-Multidisciplinary Studies Degree (BA or BS).....	57
Second Degree Requirements	57
Academic Credit-Credit for Prior Learning	57
Transfer Students	63
Courses-Definition	64
Course Numbering System	66
Student Class Standing (Year in the University)	67
General Course Policies	67
Withdrawal From the University	69
Online Class Participation Policy.....	70
Grading Policies.....	71
Dean’s and Provost’s Lists.....	74
Policy on Grade Appeal	74

Course Repeat Rule	76
Academic Probation and Academic Dismissal Policy	76
English as a Second Language Progression Policy	77
Graduation	78
Educational Records (FERPA).....	79
Academic Integrity	82
TECHNOLOGY SUPPORT SERVICES	83
CENTER FOR CAREER DEVELOPMENT (CCD).....	85
ACADEMIC SUCCESS CENTER.....	89
Tutoring.....	89
Standardized Testing Services	90
Services for Students with Disabilities	90
Service Animal Policy.....	93
INTERNATIONAL AND ENGLISH AS A SECOND LANGUAGE PROGRAMS	97
SCHOENBAUM LIBRARY	98
OFFICE OF STUDENT LIFE	99
Residence Life and Housing.....	99
Student Conduct	100
International and ESL Programs.....	100
Student Government Association (SGA)	101
Student Activities Board (SAB).....	101
Greek Life	101
Student Organizations.....	101
ATHLETICS AND RECREATION.....	103
UNIVERSITY PROGRAM (UNIV).....	105
Mentors and Major Advisors	105
University Courses.....	105

A Typical First Year Schedule	106
UNIVERSITY OF CHARLESTON HONORS COLLEGE	107
MORRIS HARVEY SCHOOL OF ARTS & SCIENCES.....	109
DEPARTMENT OF EDUCATION	111
Teacher Education Program	116
Educational Studies Program.....	120
DEPARTMENT OF DATA ANALYTICS AND COMPUTER SCIENCE.....	123
Applied Computer Science	124
Cyber Security Concentration in Applied Computer Science	127
Applied Computer Science Minor.....	130
Data Analytics Major	131
DEPARTMENT OF HUMANITIES	135
Art Minor	136
Communication (COMN.BA) Major	138
Communication (COMN.BA) Minor	141
Digital Media Design	144
Digital Media Design Minor	147
English and Professional Writing Major.....	150
Minor in English.....	153
General Studies Major	155
Individualized Major – Multidisciplinary Studies.....	156
Music Minor.....	158
DEPARTMENT OF NATURAL SCIENCES & MATHEMATICS.....	160
Mathematics.....	162
Natural Sciences.....	162
Physical Sciences.....	162
Biology Major	163
Biology Minor	172

Chemistry Major	174
Chemistry Minor	177
Chemistry Data Analytics Concentration	179
Chemistry-Biology Dual Major	183
DEPARTMENT OF SOCIAL SCIENCES	188
History-Political Social Sciences.....	189
History Minor	191
Political Science Major.....	195
Political Science Minor.....	199
Criminal Justice Minor	199
Psychology Major	203
Psychology Minor	212
Regional Studies in Appalachia Minor	213
HERBERT JONES SCHOOL OF BUSINESS AND LEADERSHIP	214
Bachelor of Science in Business of Administration (B.S.B.A.).....	218
Minor in Business Administration	221
Associate Degree of Science Degree in Business Administration	221
Accounting Major.....	224
Business Analytics Major.....	228
Digital Marketing Major.....	232
Entrepreneurship Major.....	236
Entrepreneurship Minor.....	240
Financial Planning.....	242
Management Major.....	250
Sport Analytics (SPAN) Major.....	254
Sport Business Major	258
Sport Business Minor	261
Sport Media Major.....	263
Military Science Program (ROTC).....	268

Bachelor of Science in Cyber Security Major	270
Organizational Leadership	274
Organizational Leadership Concentration.....	276
Organizational Leadership Minor	277
Frontline Leadership Major	278
Master of Business Administration (MBA)	281
Master of Science in Cyber Security	287
Master of Science in Strategic Leadership	289
Doctor of Executive Leadership	293
BERT BRADFORD SCHOOL OF HEALTH SCIENCES.....	298
Capito Department of Nursing	300
Associate Degree in Nursing	307
Bachelor of Science in Nursing	311
Nursing RN-BSN	316
Department of Health Sciences.....	319
Exercise Science Major	319
Strength and Conditioning Minor.....	322
Health Promotion Major.....	324
Occupational Therapy Assistant Program	328
Radiologic Science Major	333
Radiologic Technology Program.....	345
Health Science Minor	349
DEPARTMENT OF PHYSICIAN ASSISTANT MASTER OF PHYSICIAN ASSISTANT STUDIES (MPAS)	350
SCHOOL OF PHARMACY	355
Residency Program.....	367
PharmD/MBA Dual Degree Program.....	367
Scholar in Geriatric Pharmacy Track	372
UNDERGRADUATE COURSE LISTINGS	375

Accounting (ACCT)	375
Art (ART)	377
Biology (BIOL)	378
Business Administration (BUSI)	386
Chemistry (CHEM)	389
Communication (COMM)	392
Computer Science (COSC)	392
Criminal Justice (CRJS)	395
Cybersecurity (CYBR)	396
Data Science (DASC)	398
Digital Media Design (DMDS)	399
Economics (ECON)	401
Education (EDUC)	401
English (ENGL)	405
English as a Second Language (ENSL)	407
Entrepreneurship (ENTR)	408
Exercise Science (EXER)	409
Finance (FINA)	411
Frontline Leadership (FLDR)	413
Geography (GEOG)	414
History (HIST)	414
Honors College (HNRS)	415
Health Promotion (HPRO)	415
Health Sciences (HSCI)	416
Humanities (HUMN)	417
Communication (COMN.BA)	418
Mathematics (MATH)	419
Management (MGMT)	420
Marketing (MRKT)	422
Military Science (MSCI)	423

Multidisciplinary Studies (MTDS)	426
Music (MUSC)	426
Natural Science (NSCI)	428
Nursing (NURSA, NURSB, AND NURSR)	429
Occupational Therapy Assistant (OTA)	438
Organizational Leadership (ORGL)	441
First Responder / Criminal Justice Concentration OLFR	444
Physical Science (PHSC)	445
Political Science (POLS)	445
Psychology (PSYC)	448
Radiologic Science (RADI)	451
Radiologic Technology (RADT)	455
Social Science (SSCI)	458
Sociology (SOCI)	461
Speech (SPCH)	461
Sport Business	461
Statistics (STAT)	464
University Courses (UNIV)	464
GRADUATE COURSE LISTINGS	467
Master of Cybersecurity (CYBR)	467
Doctor of Executive Leadership (DEL)	469
Strategic Leadership (GSL)	471
Strategic Leadership Concentration	473
Healthcare Leadership	474
Master of Business Administration (MBA)	475
Master of Physician Assistant (MPAS)	478
Doctor of Pharmacy (PHAR)	485
DIRECTORY INFORMATION	501
Trustees of the University of Charleston	501

Emeritus Trustees.....502
Executive Administration503
Administrative Offices505
The Faculty508

ACADEMIC CALENDAR

2020-2021 Academic Calendar

Fall 2020

Fall	15 Week Classes	7 Week Classes
Week 1 (Aug. 24)	8/24 Classes Begin 8/28 Last Day to Add Classes	8/24 A Term Classes Begin 8/26 Last Day to Add Classes
Week 2 (Aug. 31)	9/2 Attendance Report Due 9/4 Last Day to Drop w/out "W"	9/2 Attendance Report Due 9/4 Last Day to Drop w/out "W"
Week 3 (Sept. 7)	9/7 Labor of Love Day (no classes) 9/7 First Freeze Enrollment Report	9/7 Labor of Love Day (no classes)
Week 4 (Sept. 14)	9/18 Fourth Week Grade Check	
Week 5 (Sept. 21)		
Week 6 (Sept. 28)		
Week 7 (Oct. 5)	10/6 Mid-term Grades Due	10/11 A Term Classes End 10/11 Last day to drop w/ "W"
Week 8 (Oct. 12)		10/13 Final Grades Due 10/16 Last Day to Register for B Term
Week 9 (Oct. 19)		10/19 B Term Classes Begin 10/21 Last Day to Add Classes
Week 10 (Oct. 26)		10/28 Attendance Report Due 10/30 Last Day to Drop w/out "W"
Week 11 (Nov. 2)	11/6 Athlete Grade Check	11/2 Second Freeze Enrollment Report
Week 12 (Nov. 9)		
Week 13 (Nov. 16)		
Week 14 (Nov. 23)	11/23-11/27 Thanksgiving Break	11/23-11/27 Thanksgiving Break
Week 15 (Nov. 30)	12/4 Semester Classes End 12/4 Last day to drop w/ "W"	
Week 16 (Dec. 7)	12/8-11 Final Exam Period 12/12 Graduation	12/13 B Term Classes End 12/13 Last day to drop w/ "W"
Week 17 (Dec. 14)	12/15 Final Grades Due	12/15 Final Grades Due

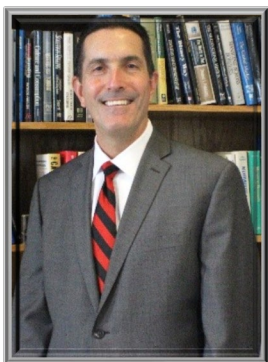
Spring 2021

Spring	15 Week Classes	7 Week Classes
Week 1 (Jan. 11)	1/11 Classes Begin 1/15 Last Day to Add Classes	1/11 A Term Classes Begin 1/13 Last Day to Add Classes
Week 2 (Jan. 18)	1/18 Enlightened Living Day (no classes) 1/20 Attendance Report Due 1/22 Last Day to Drop w/out "W"	1/18 Enlightened Living Day (no classes) 1/20 Attendance Report Due 1/22 Last Day to Drop w/out "W"
Week 3 (Jan. 25)	1/25 First Freeze Enrollment Report	
Week 4 (Feb. 1)	2/5 Fourth Week Grade Check	
Week 5 (Feb. 8)		
Week 6 (Feb. 15)		
Week 7 (Feb. 22)	2/23 Mid-term Grades Due	2/28 A Term Classes End 2/28 Last Day to Drop w/ "W"
Week 8 (Mar. 1)		3/2 Final Grades Due 3/5 Last Day to Register for B Term
Week 9 (Mar. 8)		3/8 B Term Classes Begin 3/10 Last Day to Add Classes
Week 10 (Mar. 15)		3/17 Attendance Report Due 3/19 Last Day to Drop w/out "W"
Week 11 (Mar. 22)	3/26 Athlete Grade Check	3/22 Second Freeze Enrollment Report
Week 12 (Mar. 29)	3/29 I-3 Day (no classes)	3/29 I-3 Day (no classes)
Week 13 (Apr. 5)		
Week 14 (Apr. 12)	4/16 Semester Classes End 4/16 Last Day to Drop w/ "W"	
Week 15 (Apr. 19)	4/20-4/23 Final Exam Period 4/24 Graduation	4/25 B Term Classes End 4/25 Last Day to Drop w/ "W"
Week 16 (Apr. 26)	4/27 Final Grades Due	4/27 Final Grades Due

Summer 2021

Summer	15 Week Classes	7 Week Classes	5 Week Classes
Week 1 (May 10)	5/10 Classes Begin 5/14 Last Day to Add Classes	5/10 A Term Classes Begin 5/12 Last Day to Add Classes	
Week 2 (May 17)	5/19 Attendance Report Due 5/21 Last Day to Drop w/o "W"	5/19 Attendance Report Due 5/21 Last Day to Drop w/o "W"	
Week 3 (May 24)	5/24 First Freeze Enrollment Report		5/24 C Term Classes Begin 5/25 Last Day to Add Classes
Week 4 (May 31)	5/31 No Classes – Memorial Day	5/31 No Classes – Memorial Day	5/31 No Classes – Memorial Day 6/1 Last Day to Drop w/o W
Week 5 (June 7)			
Week 6 (June 14)			
Week 7 (June 21)		6/27 A Term Classes End 6/27 Last Day to Drop w/ "W"	6/25 C Term Classes end 6/25 Last Day to Drop w/ "W"
Week 8 (June 28)		6/29 Final Grades Due 7/2 Last Day to Register for B Term	6/29 Final Grades Due
Week 9 (July 5)	7/5 No Classes -July 4 th	7/5 No Classes -July 4 th 7/6 B Terms Classes Begin 7/7 Last Day to Add Classes	7/9 Last Day to Register for D Term
Week 10 (July 12)		7/14 Attendance Report Due 7/16 Last Day to Drop w/o "W"	7/12 D Term Classes Begin 7/13 Last Day to Add Classes
Week 11 (July 19)		7/19 Second Freeze Enrollment Report	7/19 Last Day to Drop w/o "W"
Week 12 (July 26)			
Week 13 (Aug. 2)			

Week 14 (Aug. 9)			8/13 D Term Classes End 8/13 Last Day to Drop w/ "W"
Week 15 (Aug. 16)	8/20 Semester Classes End 8/20 Last Day to Drop w/ "W"	8/22 B Term Classes End 8/22 Last Day to Drop w/ "W"	8/17 Final Grades Due
Week 16 (Aug. 23)	8/24 Final Grades Due	8/24 Final Grades Due	



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. At UC you will gain knowledge and expertise in analytics, communications, technology, innovation, values and engagement. These career-ready competencies 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.

A handwritten signature in black ink, appearing to read 'MSR', written in a cursive style.

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.

INSTITUTIONAL LEARNING OUTCOMES

As defined by the Higher Learning Commission, the University of Charleston utilizes an integrated and embedded strategy to assess institutional learning outcomes in academic programs. In practice this means that upon graduation a student will have demonstrated the competencies listed below by successfully completing performance-based assessments embedded within courses required by each academic program. Performance-based assessment facilitates the evaluation of learning outcomes by requiring students to demonstrate that they can apply knowledge and skills to perform real-world tasks. Performance-based assessment provides for the direct assessment of student learning outcomes and supports the University of Charleston's commitment to applied learning and experiential education.

Competencies	Learning Outcomes
Analytics	The ability to systematically analyze and utilize data to make decisions
Communication	The ability to read, write, and speak effectively.
Technology	The ability to use technology to access, evaluate and share information
Innovation	The ability to create, synthesize and disseminate new knowledge
Values	The ability to apply ethical principles to make decisions
Engagement	The ability to participate effectively in professional and community settings

General Education Requirements for Bachelor's Degree Programs (Charleston-based):

Components	Requirements
Core Component	UNIV 104 and 105, SPCH 103, and COMM 101 and 102 (Transfer students substitute UNIV 204 for UNIV 104 and 105)
Flex Component	6-8 credits in each of the following areas: Humanities, Social Sciences and STEM (STEM includes science, math, statistics, computer science and data analytics)
Elective Component	6-8 credits additional from any combination of Flex courses (e.g. 2 STEM; 1 Humanities and 1 Social Science course)

ADULT LEARNING PATHWAY

The Adult Learning Pathway is designed to meet institutional learning outcomes for students enrolled in non-traditional, adult-oriented programs, including Organizational Leadership, the RN-BSN and Associate Degree in Nursing programs, Frontline Leadership, Occupational Therapy Assistant (OTA) and Radiologic Technology.

An Adult Learning Pathway requires a minimum of 18 credits distributed equally across each of the following competencies: Analytics, Communication, Technology, Innovation, Values and Ethics. Each non-traditional program has determined the combination of course requirements which will best serve the career aspirations and educational needs of their particular students.

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.

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 the program's admission requirements are not met. 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 104 and UNIV 204.

DEGREE PROGRAMS – ACADEMIC MAJORS

Name of Major	Degree	Location
<u>School of Arts & Sciences</u>		
<u>Applied Computer Science</u>	BS	Charleston
Cybersecurity Concentration		Charleston
<u>Biology</u>	BS	Charleston
General Biology		Charleston
Environmental Biology		Charleston
Biomedical Sciences		Charleston
Data Analytics Concentration		Charleston
<u>Chemistry</u>	BS	Charleston
Pre-Professional		Charleston
Chemistry-Biology Dual Major		Charleston
Data Analytics Concentration		Charleston
<u>Data Analytics</u>	BS	Charleston
<u>Digital Media Design</u>	BS	Charleston
<u>Education</u>		Charleston
Elementary Education	BA	Charleston
Elementary Education/Special Education	BA	Charleston
Secondary Special Education	BS	Charleston
Elementary Studies and Child Development	BA	Charleston
<u>English</u>	BA	Charleston
<u>History/Political Science</u>	BA	Charleston
<u>Individualized Majors</u>		
General Studies	BA & BS	All Locations
Multidisciplinary Studies	BA & BS	All Locations
<u>Communication</u>	BA	Charleston
<u>Political Science</u>	BA	Charleston
Pre-Law		Charleston
<u>Psychology</u>	BA	Charleston, Online
<u>Psychology</u>	BS	Charleston
<u>School of Business and Leadership</u>		

<u>Business Administration</u>	AS	Online
<u>Business Administration</u>	BS	Charleston/Online
<u>Accounting Major</u>		Charleston/Online
<u>Business Analytics Major</u>		Charleston
<u>Digital Marketing Major</u>		Charleston
<u>Entrepreneurship Major</u>		Charleston
<u>Financial Planning Major</u>		Charleston
<u>Management Major</u>		Charleston/Online
<u>Sport Analytics Major</u>		Charleston
<u>Sport Business Major</u>		Charleston
<u>Sport Media Major</u>		Charleston
<u>Cybersecurity (degree completion)</u>	BS	Online
<u>Frontline Leadership</u>	AS	Online
<u>Organizational Leadership (degree completion)</u>	BS	Online
<u>School of Health Sciences</u>		
<u>Health Promotion</u>	BS	Charleston
<u>Exercise Science</u>	BS	Charleston
<u>Nursing</u>	ADN	Beckley & Charleston
<u>Nursing</u>	BSN	Charleston
<u>Nursing – RN-BSN</u>	BSN	Online
<u>Occupational Therapy Assistant</u>	AS	Beckley & Charleston
<u>Radiologic Science</u>	BS	Charleston
<u>Radiologic Technology</u>	AS	Beckley
The Graduate Programs		
<u>Master of Business Administration</u>	MBA	Charleston, Online
<u>Master of Science in Cybersecurity</u>	MSCS	Online
<u>Master of Strategic Leadership</u>	MSSL	Online
<u>Master of Physician Assistant Studies</u>	MPAS	Charleston
<u>Doctor of Executive Leadership</u>	DEL	Online (Low residency)
<u>Doctor of Pharmacy</u>	PharmD	Charleston

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 institutional learning outcomes results to evaluate how our students are progressing toward graduation. 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 expertise in a discipline outside their major field of study. A student who elects the Multidisciplinary Studies program will complete the degree by selecting three, related minors from the list below.

Approved Academic Minor	Credits Required for the Minor
<u>Art Minor</u>	18
<u>Applied Computer Science</u>	20
<u>Biology Minor</u>	19
<u>Business Administration Minor</u>	21
<u>Chemistry Minor</u>	18
<u>Criminal Justice Minor</u>	18
<u>Digital Media Design Minor</u>	18
<u>Entrepreneurship Minor</u>	19
<u>Health Science Minor</u>	18
<u>History Minor</u>	18
<u>Communication Minor</u>	18
<u>Music Minor</u>	23
<u>Organizational Leadership Minor</u>	18
<u>Political Science Minor</u>	18
<u>Professional Writing In English Minor</u>	18

<u>Psychology Minor</u>	18
<u>Regional Studies - Appalachia Minor</u>	18
<u>Sport Business Minor</u>	18
<u>Strength & Conditioning Minor</u>	18

ENROLLMENT MANAGEMENT

Beth Wolfe, Ed.D., Executive Vice President of Enrollment Management

OFFICE OF ADMISSIONS

Jason Sammons, Director of Admissions Operations

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 and social growth through their on- and off-campus outreach for enlightened living and community involvement.

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. Admissions decisions are made on a rolling basis until two weeks prior to the start of the term. Within two weeks of the term start date, applications will be reviewed at the discretion of the Director of Admissions/EVP of Enrollment Management.

Freshman admission requirements are: Minimum 2.5 academic grade point average (on a 4-point scale); or GED or TASC score of 450.

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 requested and used for placement into the first semester of coursework. Official test scores may also be utilized for consideration for selection into the Honors College and/or scholarship qualification. 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 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.

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

- Completed Undergraduate Application for admission;
- \$25.00 Application fee or application fee waiver;
- Record of high school GPA through self-report (for conditional admission)/on
- high school transcripts or official GED/TASC results with an average score of 450 or more, if applicable;

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 reports (if applicable);
- Official transcripts from an accredited university for dual enrollment
- credit (if applicable);
- Applicants to fully online academic programs must submit a valid driver's license or state issued photo identification.

Applicants with GPAs below 2.50 will be considered for admission after review by the Director of Admissions Outreach and the Executive Vice President of Enrollment Management. These students are encouraged to submit supplemental items for consideration. These may include but are not limited to

- A personal statement outlining the student's career goals, challenges faced and overcome, intent to improve academic performance, and how the University of Charleston fits into the student's plan for their future.
- Letters of recommendation from teachers, school counselors, coaches, mentors, employers, etc.
- Standardized test scores.
- A resume listing work experience and personal accomplishments.

Applicants with GPAs below 2.50 are encouraged to submit these materials at the time of application. However, the Office of Admissions will formally request these items 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.

Any student who is denied admission to the University of Charleston is entitled to appeal the decision to the Student Academic Affairs Committee.

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 studyabroad);
- 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 do not intend to use federal or state financial aid (Pell Grant, student loans, WV Higher Education Grant, etc.) and who meet the below criteria:

Over 25 years of age

or

- Military service member
 - Military good standing
 - Eligible for tuition assistance/third-party tuition payment

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

FTA applicants need to submit the admissions application, a signed FTA form, and transcripts from only the institutions from which they wish to receive transfer credit. If a student is admitted through FTA and later decides to file a FAFSA for federal/state aid, he/she will lose FTA status and will be required to submit all transcripts from all previously attended institutions.

Students interested in applying through the FTA should contact an admissions representative to determine eligibility.

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) OR
- 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. OR

- c. Currently employed
 - i. Three years of work experience (self-reported)
 - ii. Verification of current employment (ID, pay stub, etc.)
 - d. Displaced Worker
 - i. Three years of work experience - documentation on a resume
 - ii. Displaced Worker Verification Worksheet completed

Step Two: Agreement to fast track admissions conditions

- 1. Student signs form that verifies that they are not using any federal or state financial aid
 - a. Form verifying non-use of FAFSA-related Financial Aid (FA)
 - b. Student verifies that they are going to use only third-party payer funds or private pay to pay for university bills.
 - c. The form will be filed within the Financial Aid file for that student.

Step Three: Conditional Acceptance

If the student meets the above conditions, they are considered "conditionally accepted" and can proceed with registration for the next term/semester start.

- a. The student needs to know that original transcripts will be required for any course that is being accepted for any credits towards degree. Advisors will assist the student in acquiring the necessary transcripts, although it is the student's ultimate responsibility.
- b. An admissions "hold" will be placed on the student's account and will be removed only by admissions after official transcripts are obtained from schools where college transfer credit is being received by UC.

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 Undergraduate Application for Admission;
- \$25 application fee or application fee waiver;
- Transcripts from each college or university previously attended by the student. Unofficial transcripts may be used for a conditional admissions decision, but Final and Official transcripts must be on file prior to the start of the student's second enrolled semester at the University of Charleston;
- Transfer Clearance Form from most recent school attended;
- 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. 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 "<https://www.ucwv.edu/admissions/undergraduate/transfer-students/>" 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

Transfer applicants whose GPA falls below a 2.0 may be considered for admission after further review by the Director of Admissions Operations/EVP of Enrollment Management. These students are encouraged to submit materials that support their application which may include but are not limited to

- A personal statement outlining the student's career goals, challenges faced and overcome, intent to improve academic performance, and how the University of Charleston fits into the student's plan for their future.
- Letters of recommendation from teachers, school counselors, coaches, mentors, employers, etc.
- Standardized test scores.
- A resume listing work experience and personal accomplishments.

An applicant can choose to submit these materials at the time of application.

However, the Office of Admissions will formally request these items after receipt of the admissions application and transcripts. The Director of Admissions Operations/EVP of Enrollment Management may also take into consideration the length of time since previous coursework was attempted.

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.

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 Office of Admissions 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

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.

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.

Special Admission Requirements

Some programs within Health Sciences 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 for which they wish to be admitted.

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

American College Test (ACT) or Scholastic Assessment Test (SAT) results are recommended for 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 NACES member international transcript evaluation service when transcripts are not written in English. Please contact the appropriate service for your needs. A list of these evaluation services can be found at <http://www.naces.org/members>.

All official secondary school and college/university scholastic records submitted in support of your application **must** 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](http://www.naces.org/members)[®] 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>

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, 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 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 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 to proceed with enrolling at the University of Charleston unless special arrangements have been made with the Executive Vice President of Enrollment Management. 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 50-mile radius of campus), a \$100 housing security deposit must also be remitted prior to securing campus housing. 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 processed 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 AND 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-2020-2021 ACADEMIC YEAR

Room and board costs for the 2020-2021 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 Life 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

Christie Tomczyk, Director of Financial Aid

The Financial Aid Office coordinates the awarding of federal, state, and institutional financial aid programs. This office also provides information regarding scholarships, loans, and grants from private sources (non-institutional, non-governmental aid).

Financial aid is awarded on the basis of scholastic/athletic achievement, financial need, or a combination of both. Offers of assistance are designed to supplement the resources of the family and may vary per academic year. Financial assistance may be in the form of federal, state, institutional, or private aid. There are three types of aid: gift aid (grants and scholarships), loans (federal and private), and work study opportunities.

For federal, institutional, state, and most private aid, family resources are measured by the needs analysis formula of the Free Application for Federal Student Aid (FAFSA). Every domestic student is encouraged to complete the FAFSA for determination of his or her eligibility for federal aid. The FAFSA is filed electronically at www.fafsa.gov an official U.S. Department of Education website. You may submit your signatures via U.S. mail or electronically using your FSA ID.

A family's Expected Family Contribution (EFC) is based upon the information submitted on the FAFSA, which includes income, assets, number of people in the family, and other family factors. The difference between the Expected Family Contribution and the Cost of Education (COE) for an academic year represents a student's "financial need."

All financial aid is disbursed directly onto the students' account for charges related to tuition, fees, and room and board. Non-institutional financial aid exceeding student account changes may be issued as a refund to the student for other educational expenses (books, supplies, etc.).

How to Apply:

1. The student must be accepted for admission to the University in order to receive an official offer of financial aid. If applying after October 1 of the high school senior year, an applicant should apply for financial aid and for admission concurrently.
2. An applicant for aid must submit the Free Application for Federal Student Aid (FAFSA) and list the University of Charleston's Federal school code: 003818. Once the FAFSA has been filed and processed, the Department of Education (DOE) will send the student and the University an electronic student aid report (SAR) provided the student listed the correct Federal school code. The University of Charleston must have the student's correct Social Security Number on file in order to tie the SAR to the student's record. Corrections to the FAFSA can be made electronically through the FAFSA website and submitted to DOE for processing.

3. UC may require verification of information and may request a copy of an applicant's IRS Federal Tax Return Transcript, the applicant parent's/spouse's IRS Federal Tax Return Transcript, and/or the UC Verification Worksheet.

Students must complete the FAFSA application every year to be considered for federal financial aid. March 1 is the priority deadline for the following academic year. Any applications received after the March 1 deadline will be given consideration as 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 enrolled in in-seat programs on the Charleston campus, and a few select face-to-face graduate programs. Scholarships do not apply to online degree programs, or programs on the Beckley campus that utilize a per-credit-hour tuition structure. For details about our scholarships please visit the University's website at <http://www.ucwv.edu/admissions/financial-aid/types-of-aid/scholarships/>.

Combination of Scholarships and Residency Status

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 may 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. 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 ($120 \times 1.50 = 180$). 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 had 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](#).

Student Withdrawal Financial Aid – Title IV Refund Policy

Withdrawal from a class or from all classes may impact aid eligibility, both in the semester in which the withdrawal occurs and subsequent semesters. The University's refunds are made based on University policy as specified in the section below. Refunds to financial aid programs are made in compliance with the U.S. Department of Education Federal Title IV Refund Policy regulations, state program policies and University regulations.

Federal Return of Title IV Aid (R2T4)

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60% of a payment period or term. If a student leaves the institution prior to completing 60% of a payment period or term, the financial aid office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

Aid to be returned = (100% of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds, and the student would be required to return a portion of the

funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/ her, the institution would owe the student a post -withdrawal disbursement which must be paid within 120 days of the student's withdrawal.

The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Direct Loans (other than PLUS loans)
- Subsidized Direct Loans
- Direct PLUS Loans
- Federal Pell Grants for which a Return of funds is required
- Federal Supplemental Opportunity Grants for which a Return of funds is required
- TEACH Grants for which a Return is required
- Iraq and Afghanistan Service Grant for which a Return is required
- For other assistance under this "Title" for which a return of funds is required (e.g., LEAP)

University Tuition Refund Policy

Refunds will be made according to the following schedule.

- Students who are registered for 16-week classes and withdraw within the first two weeks of scheduled classes are not charged tuition. If a student withdraws for any reason after the first two weeks of a 16-week semester, the student is responsible for the full charges of the semester.
- Students who are registered for 7-week classes and withdraw on or within the ten days of class are not charged tuition. If a student withdraws for any reason after the first ten days of a 7-week semester, the student is responsible for the full charges of the term.
- Students who are registered for a 5-week summer class and withdraw on or before the first scheduled class meeting day of the course are not charged tuition. If a student withdraws for any reason after the first day of scheduled classes, the student is responsible for the full charges of the term.

Students who are pre-registered and decide not to attend the University of Charleston must contact the Student Solutions Center to have his or her name removed from course rosters. The date and time of this communication will determine the amount of tuition that will be charged.

A student dismissed for disciplinary reasons will receive no refund of any charges, except for board and room, which would be proportionate to the number of days of the term remaining after the university ID is surrendered.

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.

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 or 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.

Rights and Responsibilities of Aid Recipients

As a consumer of a commodity (financial aid for a higher education), you have certain rights to which you are entitled, and certain obligations for which you are responsible.

You have the right to know:

- The names of accrediting or licensing organizations
- Information about its programs; its instructional, laboratory and other physical facilities and its faculty.
- Special facilities and services available to persons with disabilities.
- What financial assistance is available, including information on federal, state and institutional financial aid programs?

- The deadlines for submitting applications for the federal aid programs available.
- The cost of attending the University and its refund policy.
- The criteria used by the University to select financial aid recipients.
- How the University determines your financial need.
- What resources (such as parental contribution, other financial aid, your assets, etc.) are considered in the calculation of your need?
- How much of your financial need, as determined by the University, has been met?
- What portion of the financial aid you received is loan aid and what portion is grant aid? If the aid is a loan, you have the right to know what the interest rate is, the total amount that must be repaid, the repayment procedures, and the length of time you have to repay the loan and when the repayment is to begin.
- How the University determines whether you are making satisfactory academic progress and what happens if you are not.

It is your responsibility to:

- Review and consider all information about the University before you enroll.
- Complete all application forms accurately and submit them on time to the right place.
- Pay special attention to and accurately complete your application for financial aid. Errors can result in long delays in receiving financial aid. International misreporting on application forms for federal financial aid is a violation of the law and is considered a criminal offense, subject to penalties under the U.S. Criminal Code.
- Submit all additional documentation, verification, corrections and/or new information requested by the Financial Aid Office.
- Read all forms that you are asked to sign and keep copies of them.
- Accept responsibility for all agreements that you sign.
- Notify the Financial Aid Office of changes in your name, address, housing or enrollment status. (This also applies to loan recipients after they leave the University.)
- Perform the work agreed upon in accepting a work study award.
- Know and comply with the University's deadlines for application or reapplication for aid.
- Know and comply with the University refund procedures.
- Notify the Financial Aid Office in advance when your course load at the University may be less than full-time. Failure to do so will cause delay in the receipt of your funds.
- Notify the Financial Aid Office of any changes in financial status. Failure to do so can result in termination of financial assistance.
- Maintain satisfactory academic progress. Withdrawal from the University or never attending classes will result in partial or full repayment of aid disbursed for the semester involved.

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. 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).

Math Placement

Course	ACT Math Score	SAT Math Score
MATH 201 Calculus I	27	640
MATH 123 Precalculus	24	580
MATH 121 College Algebra	21	530
MATH 120 Intermediate Algebra	No minimum score required	

Test-Out Option

- Students who feel they are incorrectly placed in a math course have the option of attempting to test out of that math course.
- Testing out requires students to score at least 80% on the final exam for the course of which they are attempting to test out.
- Testing out of a math course does not give students credit for the course, but only shows proficiency to be successful in the next higher math course.
- Students who want to attempt testing out of a math course should contact the Mathematics Program Director for more information.
- Math courses with test-out option: MATH 120, MATH 121, MATH 123

Chemistry Placement

Students must have an ACT Math Score of 21 or an SAT Math Score of 530. Science majors needing CHEM 101, but not meeting the ACT/SAT requirement, should discuss options with the Chemistry program coordinator.

Other Placement

Students who receive a score of 89 or below on the Nelson Denny test will be required to take UNIV 106 Success in College Reading.

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, including general education requirements.

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 general education requirements, 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 general education requirements, 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

A minor is a sequence of courses within an integrated curriculum that is offered outside of a student’s degree program or major. Minors require a minimum of 18 credits in the discipline. At least six (6) of these credits must be completed at the University of Charleston. Up to six (6) credit hours may be counted toward a major or a minor. No limit has been placed on the number of minors a student may acquire.

CONCENTRATIONS

A concentration is a sequence of courses within an integrated curriculum that is offered within a student’s degree program or major. At least 9 credits must be outside the core requirements of the student’s a program of studies. A concentration must contain at least 12 credits.

CERTIFICATES

A certificate is a sequence of courses within an integrated curriculum that may or may not be offered within a student’s degree program or major. Certificates may be comprised of non-credit bearing experiences or credit-bearing experiences. A certificate comprised of credit-bearing experiences must contain at least 12 credits. No limit has been placed on the number of certificates a student may earn.

DOUBLE MAJORS

A student may declare a second major. Students need to satisfy general education 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.

UNDERGRADUATE DEGREE REQUIREMENTS

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 all general education requirements, 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.

RESIDENCY POLICY

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 all general education requirements;
- 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;
- Fulfillment of all general education requirements;
- 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;
- Fulfillment of all general education requirements;
- 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;
- Fulfillment of all general education requirements; *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 complete additional general education requirements.

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 a score 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:

AP Test Name	Credits	Equivalent UC Course
American Government	3	POLS 101
American Literature	3	ENGL 223
Art – History of Art	3	ART 203
Art – Studio: Drawing	3	ART 100
Biology (Score of 3 or 4)	4	NSCI 117
Biology (Score of 5)	4	BIOL 130, BIOL 130L
Calculus – AB (Score 4 or 5)	4	MATH 201
Calculus – BC (Score 4 or 5)	4	MATH 202
Chemistry (Score of 4 or 5)	8	CHEM 101, 102, 101L 102L
Economics – Microeconomics	3	ECON 201
Economics– Macroeconomics	3	ECON 202
English – Language	3	COMM 101
English – Literature	3	COMM 102, ENGL 2XL
French	6	FREN 101, FREN 102
German	6	GERM 101, GERM 102
Government & Politics	6	POLS 101, POLS 102
Introduction to Management	3	MGMT 311

Music – Theory	3	MUSC 101
Music – Listening & Literature	3	MUSC 212
Physics 1 (Score of 4 or 5)	4	PHSC 201, PHSC 201L
Physics 2 (Score of 4 or 5)	4	PHSC 202, PHSC 202L
Principles of Marketing	3	MRKT 321
Psychology	3	PSYC 101
Spanish	6	SPAN 101, SPAN 102
US History	6	HIST 251, HIST 252
World History	3	HIST 212

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-Charleston.

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 general education requirements. He or she submits a written request and a portfolio documenting mastery of the content area(s) and outcome(s) to program faculty. The portfolio is evaluated by a faculty member (full-time or part-time) who has expertise in the field or fields being assessed. **The University of Charleston does not award academic credit in areas in which it does not have faculty expertise.**

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 degrees 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.

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 general education requirements before a degree can be awarded.

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 general education 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 204

Students transferring into certain academic programs will be required to enroll in UNIV 204 College Success and Leadership. This course is designed to help students complete some elements of the lower-level UNIV courses in an accelerated timeline.

COURSES-DEFINITION

Traditional Courses (1-4 credits)

Most of the courses described in this Catalog are traditional, in-seat 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 supervision from instructors is more frequent. The number of hours the student is required to take part in Clinical courses varies significantly 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 general education requirement 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.

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.

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 generally 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 fails to meet the GPA and/or credit hour requirements must seek the Provost's approval via a request to be submitted by the student's advisor.

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: SPCH 103, MUSC 324 (Concert Choir), MUSC 327 (Band), and MSCI (Military Science).

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. A student may **drop** a class and receive a "W" grade until the last day of 15-week classes. 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.

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. A student may **drop** a class and receive a "W" grade until the last day of 7-week classes. 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.

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. A student may **drop** a class and receive a “W” grade until the last day of 5-week classes. 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.

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 stationery 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.

The following rules also apply to the University's general attendance policy:

- 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 programs 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.

Students are required to attend an online course through active participation in the course within the first week of class to confirm 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 a student does not attend the course as stated above, the Registrar’s Office will be notified and the student 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.

F Represents failure to meet the outcomes or requirements of a learning experience.

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.

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.

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, including summer

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

I..... Not included in credits attempted for GPA calculations

IM-Not included in credits attempted for GPA calculations

I/F..... Zero quality points per credit attempted for GPA calculations

IM/F-Zero quality points per credit 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. Grades are determined by faculty based on their academic judgment and a disagreement or dissatisfaction with the evaluation of the work is not a basis for a grade appeal. Work turned in after specific deadlines published in the course syllabus or end of the official class term cannot be considered in the grade appeal process. Note: Technical issues beyond a student's control should be reported immediately to faculty member and the Help Desk (help@ucwv.edu).

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. If the student feels that they have grounds for an appeal the responsibility for resolving the dispute is with the instructor of record, the student, the department chair and the dean of the school under which the course falls.

Grounds for a grade appeal of final course grade are:

1. **Error in Calculation or Recording of a Grade.** Your grade was erroneously entered in the gradebook or your final grade was calculated in a method inconsistent with the course syllabus.
2. **Arbitrary Evaluation:**
A significant and unwarranted deviation from grading procedures and course outlines set at the beginning of the course (ordinarily during the first week of the course) and included in the syllabus.

Grade appeals are based on problems of process and not on differences in judgment or opinion concerning academic performance. Unless it can be clearly shown by the student that the faculty member has assigned a grade in an arbitrary manner, then the faculty member's grade assigned to the student shall stand. The work in question shall not be regraded or assessed by a different instructor, department chair or dean.

At each level of the process the appeal is limited to the evaluation of whether the grade was determined by the criteria spelled out in the course syllabus.

Step 1 – Appeal to the Instructor of Record: Within five business days of when final grades are posted, the student should provide a grade appeal in writing to the faculty member who assigned the grade and attempt to resolve the issue with the instructor. A form letter found in Appendix I should be used for this process. The Faculty member should file the “Faculty Member Resolution Form” with the department chair and dean within 1 week of the meeting with the student. Note: If the faculty member does not respond to the appeal within five business days, the student should contact the department chair.

Step 2 – Appeal to the Department Chair: If no resolution of the grade dispute is achieved after Step 1; within five business days of the decision by the instructor of record, the student should provide a grade appeal in writing to the department chairperson of the faculty member. The department chair will examine the information provided by the faculty member and the student to grant or deny the appeal; the department chair also may contact additional witnesses if this is deemed important. Following this process, the department chair will provide a letter of decision to the faculty member, student, and dean. Note: If the department chair does not respond to the appeal within five business days, the student should contact the dean.

Step 3 – Appeal to the Dean: If no resolution is achieved at Step 2; within five business days of the decision by the department chairperson, the student should provide a grade appeal in writing to the dean of the faculty member. The dean will examine the information provided by the faculty member, the student, and the department chair to grant or deny the appeal; the dean also may contact additional witnesses if this is deemed important. Following this process, the dean will provide a letter of decision to the faculty member, department chair, and student. This step is the final step in the appeal process.

The decision of the Dean is final and not subject to additional appeal by either student or instructor. **The appeals process ends at this step.**

It is expected that a final decision will generally be made within the first six weeks of the following semester. 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.

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 and will be used for graduation requirements.** 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.

Students may not elect Pass/Fail grading in courses 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 his or her intentions concerning Pass/Fail before the end of the second week of a semester, before the second day of a summer term 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.

Level I Probation – A student who obtains a cumulative GPA of less than 2.0 in a given semester:

- May not enroll in more than 16 credits in the following semester;
- Must meet with his/her major advisor every other week

Level II Probation – A student who obtains a cumulative GPA of less than 2.0 for a second consecutive semester:

- May not enroll in more than 13 credits in the following semester;
- Must meet with his/her major advisor each week

Level III Probation – A student who obtains a cumulative GPA of less than 2.0 for a third consecutive semester:

- May not enroll in more than 13 credits in the following semester;
- May not register online for classes in the following semester;
- Must meet with his/her major advisor each week

Students on academic probation should consult with their faculty advisor, the financial aid office and, as appropriate, their athletic coach to discuss the consequences this may have for their ability to progress through their academic program and their eligibility for financial aid and athletics.

Dismissal: A student who does not obtain a cumulative GPA of 2.0 or more upon the completion of his/her Level III probationary semester will be dismissed from the University. Students who have been academically dismissed may be readmitted to the University after one year from the date of the dismissal by submitting a request, in writing, to the Registrar. If a student does not obtain a cumulative GPA of 2.0 or more upon the completion of his/her first semester after being readmitted the student will be subject to permanent dismissal from the University of Charleston.

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 89 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 the course.

- If the student scores 89 or below on the *Nelson Denny*, s/he will be placed in UNIV 106 in addition to regular classes.

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 at which their degree is conferred.

Graduation with Honors for Undergraduates

To graduate with honors an undergraduate 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.

School of Business and Leadership: For a graduate student to graduate with honors from a master’s or doctoral program the student must have: (1) completed at least 80 percent of the graduate course work required for graduation in the student’s program at the University of Charleston and (2) maintained a minimum 3.75 GPA for all graduate work completed in their graduate program at the University of Charleston.

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:

Record	Custodian
Registrar's Office	Registrar
Student Solutions Center Cashier	Cashier – Student Solutions Center
Office of Student Life	Dean of Students
Office of Financial Aid	Director of Financial Aid
Academic Success Center	Director, Academic Success Center

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

An academic integrity violation occurs when a student knowingly “cheats” on an exam or assignment in a deliberate attempt to receive credit he/she did not earn. The penalty for a violation is a “F” on the exam or assignment in question. If a student commits three violations he/she will be subject to immediate expulsion from the University of Charleston and will be ineligible for readmission to the institution.

If an instructor has reason to believe that a student may have committed a violation of the academic integrity policy, the instructor will conduct an investigation to confirm and document the violation. As part of the investigation, the instructor should consult with his/her program director or department chair to ensure the evidence is sufficient to support the allegation. Once the investigation is completed, the instructor must schedule a meeting to discuss the alleged violation with the student within 5 business days. The instructor also should invite his/her program director or department chair to attend the meeting as a witness.

At this meeting, the instructor will present the student with evidence of the alleged violation and review the penalty for the alleged violation. **The instructor also will notify the student of his/her right to appeal, review the permissible grounds for submitting an appeal, and discuss the process for submitting an appeal.** The instructor will present the student with a completed Academic Integrity Violation Form and request that the student review and sign the document. If the student declines to sign the form the instructor should note this on the form. The instructor also must provide the student with a copy of the signed document.

Once the instructor has met with the student and the Academic Integrity Violation Form has been signed, the instructor must send a signed copy of the document, a summary of the incident and a copy of supporting evidence to the Provost’s Office (provostoffice@ucwv.edu) for placement in the student’s file.

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 clicking 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.
- **Quinnia** – Quinnia 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. Quinnia 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.

ACADEMIC SUCCESS CENTER

Beverly Farrow, Ph.D., Director

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

All UC students have access to our Peer Tutoring program. Distance learning and Beckley students have access to a peer tutor via virtual sessions, in addition to submitting writing assignments for review. There is no fee for peer tutoring.

- **Discipline-specific Tutoring:** Peer tutoring is available in a variety of subjects including math, science, economics, accounting, nursing and radiology using the tutor scheduling link: <https://www.registerblast.com/ucwv-asc/Resource/list>. 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. Our goal is to provide quality assistance, tools, and resources to help students become confident, independent writers.
- **Online Writing Lab:** Students can submit a paragraph or essay for review/critique by peer writing tutors through the tutor scheduling link: <https://www.registerblast.com/ucwv-asc/Resource/list>. All online writing submissions must be scheduled for 60 minutes.
- **Live, On-Demand Tutoring:** Distance learning and Beckley students can work one-on-one, in real time with a peer tutor in any available discipline-specific subject via whiteboard technology. Sessions can be scheduled using our tutor scheduling link (<https://www.registerblast.com/ucwv-asc/Resource/list>).

*All tutoring sessions must be scheduled at least 48-hours in advance. Students will receive a 24-hour confirmation for tutoring appointments. Subjects and scheduling for peer tutoring vary by time, according to students' needs and the availability of qualified tutors. Use the following link to schedule peer tutoring appointments: For scheduling peer tutoring peer tutoring appointments <https://www.registerblast.com/ucwv-asc/Resource/list>. For questions or more information please contact the ASC (asc@ucwv.edu) or (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 requesting/requiring accommodations for documented disabilities are encouraged to contact the Academic Success Center:

Disability Services Coordinator

Beverly Farrow

beverlyfarrow@ucwv.edu

Academic Success Coordinator

Danielle Conyers

danielleconyers@ucwv.edu

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

Americans with Disabilities Act (1990) and Americans with Disabilities Act Amendments Act (2008).

- 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.

SCHOENBAUM 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.

The Schoenbaum Library is a state-of-the-art facility equipped with wireless networking, a technology-rich classroom, and 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 80,000 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 in person, via the e-mail below, or by calling 304-357-4780. Students can also submit reference questions via e-mail to librarian@ucwv.edu at any time.

OFFICE OF STUDENT LIFE

Ms. Virginia Moore, Vice President & 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.

RESIDENCE LIFE AND HOUSING

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

Housing Application

All students are required to reside on campus unless they meet one of the exemption requirements below. As part of the housing application, a student must sign a Housing Contract as part of their housing application, 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. Housing applications are only visible to students who are registered for classes in the term they will be living on campus.

All students are required to live on campus unless they meet one of the following requirements:

- Completed more than 60 credit hours;
- Their permanent home address is within a 50-mile radius of the University, and they are living with their parent or guardian;
- They are married;
- Age 21 or older by the second week of classes in the fall;
- A parent/guardian is caring for a dependent child.

If a student meets one of the qualifying exemptions, they must complete an on-campus housing exemption form in the Housing Portal.

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 mutual. New students make housing

assignments for themselves after immunization records, and health insurance information is received in the Office of Residence 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 undergraduate 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 students should make alternative plans for dining.

STUDENT CONDUCT

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 thoroughly 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, and student identification cards.

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: comedy events, novelty artists, special UC traditional events, 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 two local sororities: **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. Students may also form a new organization by following a simple process, which can be found on the website or in the Office of Student Life.

Active Student Organizations

Governing Organizations	Greek Organizations
Student Government Association (SGA)	Theta Kappa Pi (Local Sorority)
Pharmacy Student Government Association (PSGA)	Beta Tau Epsilon (Local Sorority)
Student Organization Council (SOC)	Tau Omega (Local Fraternity)
Greek Council	Honor Societies
Departmental / Professional Organizations	Chi Beta Phi (Science)
	Gamma Beta Phi (Education)
	Pi Gamma Mu (Political Science)
	Psi Chi (Psychology)
	Sigma Tau Delta (English)
	Gamma Beta Phi (Community Service)
American Chemical Society (ACS)	Special Interest Groups
Pre-Pharmacy Club	Because Christ Matters (BCM)
Radiology Club	Catholic Campus Ministries (CCM)
School of Business and Leadership Association	College Republicans
Student Education Advisory Council (SEAC)	Global Student Organization (GSO)
Student-Athlete Advisory Committee (SAAC)	DREAM Studios
Capito Association of Nursing Students (CANS)	Inspire WV
American Society of Interior Designers (ASID)	Phi Beta Lambda
Pre-Professional Healthcare Society (PPHS)	UC Band
Psychology Club	Young Life
UC PA Student Association (PASA)	InterVarsity Black Student Union
Student Accounting Society (SAS)	UC Unity
Financial Planning Association (FPA)	
Student Athlete Advisory Committee (SAAC)	

ATHLETICS AND RECREATION

Dr. Bren Stevens, Vice President and 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 followed up with another National Championship in the fall of 2019.

University teams utilize the best athletic facilities available, on and off-campus. These include the University of Charleston Stadium (football and track), Welch Athletic Complex (soccer, baseball, lacrosse), Appalachian Power Park (baseball), Watt Powell Annex (softball) and outstanding public and private facilities are used for tennis and golf. Additionally, the Russell and Martha Wehrle Innovation Center is the home for men's and women's volleyball, and men's and women's basketball.

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, 2017, and 2018. 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.

UNIVERSITY PROGRAM (UNIV)

Debbie Bannister, Program Director

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 104/105 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

The **UNIV 104 College Motivation & Success** course is designed to foster a meaningful, professional relationship between the student and his/her faculty mentor. During the semester the student will work to discover the importance of assuming responsibility for his/her role in the educational process; receive focused guidance on curricular and professional choices 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.

The **UNIV 105 Foundations of Character & Leadership** course is designed to foster a meaningful, professional relationship between the student and his/her faculty mentor. During the semester the student will work to discover the importance of assuming responsibility for his/her role in the educational process; receive focused guidance on curricular and professional choices that will enhance personal and professional development; and develop skills necessary for team building, leadership and enlightened living.

Successful completion of speech opportunities in UNIV 104 and UNIV 105 will enable students to complete Oral Communications (SPCH 103) as an embedded course.

The **UNIV 204 College Success & Leadership** course is designed to foster a meaningful, professional relationship between the student and his/her faculty mentor. During the semester the student will work to discover the importance of assuming responsibility for his/her role in the educational process; receive focused guidance on curricular and professional choices that will enhance personal and professional development; identify and learn to access University resources and support structures designed to enhance academic and professional success and develop skills necessary for team building, leadership and enlightened living.

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.

Typical First Year Schedule			
Fall Semester	Credit	Spring Semester	Credit
General Education Course(s)	3 - 9	General Education Course(s)	3 - 6
COMM 101	3	COMM 102	3
UNIV 104	3	UNIV 105	3
Course in Major	3	SPCH 103	3
		Course in Major	3
Total:	15 to 18	Total:	15 to 18

UNIVERSITY OF CHARLESTON HONORS COLLEGE

Dr. Kara Fisher and Prof. Hallie Chillag, Program Directors

The University of Charleston Honors College is a community of high-achieving students who enter the university with evidence of exemplary high school and/or collegiate achievement. The Honors College is open to students from all majors. Graduates will be specially prepared for work in graduate education and professional environments. Specifically, Honors College graduates will complete scholarly pursuits and high levels of community engagement beyond the typical graduate. Students will have the opportunity for intensive, applied studies and coursework with an emphasis on experiential learning unique to the Honors College.

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.

Mission

The mission of the University of Charleston Honors College is to build a community of innovative scholars to develop leaders, instill integrity, and celebrate diversity.

Criteria for acceptance:

For first-time freshmen, most eligible students applying for admission to the Honors College will complete a personal interview and meet one or more the following benchmarks:

- 3.8 High School GPA (weighted or unweighted)
- 26 ACT or 1230 Redesigned SAT
- Demonstrated exceptional community activism or engagement.

It is also possible to join the Honors College after a successful first semester at the University of Charleston. Enrolled UC students may apply for admission to the Honors College Directors and show successful completion of 15 or more credits with a 3.8 cumulative GPA. Transfer students may also be eligible for admission to the Honors College by demonstrating successful completion of 15 or more credits with a 3.8 cumulative GPA earned at a previous institution.

Program Outcomes:

- Demonstrate intellectual innovation utilizing arguments that critically analyze information from a variety of sources and diverse perspectives.
- Apply values of ethical leadership, interdisciplinary engagement, and respect for diversity.

- Contribute and collaborate as informed members of local and global communities.

Program Requirements:

- Freshman Honors College Seminar
- Interdisciplinary Academies: Innovative Leadership, Community Development, Intellectual Discovery, and Global Awareness
- Community Engagement Experiences
- Senior Capstone Seminar

Suggested Plan of Discovery	
Year One	
Honors Freshman Seminar	HNRS 101/102 (2 credits)
Interdisciplinary Academy	1 recommended (1 credit)
Community Engagement Experiences	2
Year Two	
Interdisciplinary Academies	2 recommended (2 credits)
Community Engagement Experiences	2
Year Three and Four	
Interdisciplinary Academies	1 recommended (1 credit)
Community Engagement Experiences	3
Senior Capstone Seminar	HNRS 400 (3 credits)

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 ANALYTICS 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](#)

[BIOLOGY](#)

[CHEMISTRY](#)

[COMMUNICATION](#)

[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.

DEPARTMENT OF EDUCATION

Dr. Raymond Singleton, Department Chair

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 Institutional 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 104, UNIV 105 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:
 - Letter of introduction
 - Current resume
 - Sample lesson plan and reflection
 - Philosophy of education
 - One field experience evaluation
 - Professional learning experience reflection
 - Technology work sample and reflection
 - Work sample from an Arts & Sciences course and reflection
 - 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>

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 $\frac{3}{4}$ 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 <https://www.ucwv.edu/academics/majors-degrees/elementary-education/>

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 Institutional 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)

Foundations and Professional Components

EDUC 100	Introduction to Education	3 credits
EDUC 203	Survey of Students w/Exceptionalities	3 credits
EDUC 204	The Inclusive Classroom	3 credits
EDUC 250	Technology in the Schools	3 credits
EDUC 299	Theories of Learning and Teaching.....	3 credits
EDUC 311*	Assessment & Diagnosis.....	3 credits
EDUC 320*	Integrated Methods	3 credits
PSYC 212	Life Span Development.....	3 credits
Total		24 credits

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

Teacher Education Program Clinical Practice Component

EDUC 496	Seminar for Student Teaching/Internship	2 credits
EDUC 497	Student Teaching in the Content Areas	12 credits
Total		14 credits

or for Special Education

EDUC 422	Student Teaching in Special Education	6 credits
EDUC 497	Student Teaching in the Content Areas	6 credits
EDUC 496	Seminar for Student Teaching/Internship	2 credits
Total		14 credits

Educational Studies Program Clinical Practice Component

EDUC 496	Seminar for Student Teaching/Internship	2 credits
EDUC 498	Internship in Educational Studies	12 credits
Total		14 credits

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 at least twice a year to make sure progress is timely and consistent.

TEACHER EDUCATION PROGRAM
Elementary Education (K-6) – Degree Plan

FRESHMAN YEAR				
FALL SEMESTER		SPRING SEMESTER		
EDUC 100 Introduction to Education	3	EDUC 250 Tech. In the Schools	3	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3	
HIST 211 World Cultures I (SS FLEX)	3	SPCH 103 Oral Communication Fundamentals	3	
HUMN 110 Unheard Voices (HUMN FLEX)	3	MATH 121 College Algebra (STEM FLEX)	3	
MATH 120 Intermediate Algebra (STEM FLEX)	3	SSCI 105 Issues in Social Science (SS FLEX)	3	
UNIV 104 Orientation to University	3	UNIV 105 University. Experience	3	
TOTAL CREDITS		18	TOTAL CREDITS	
		18		

SOPHOMORE YEAR				
FALL SEMESTER		SPRING SEMESTER		
EDUC 204 Inclusive Classroom	3	EDUC 203 Survey Students w/ Exceptionalities	3	
PSYC 212 Life Span Development (SS FLEX)	3	EDUC 299 Theories of Learning & Teaching	3	
NSCI 117 Why Science Matters (STEM FLEX)	3	ENGL XXX Literature (HUMN FLEX)	3	
HIST 251 Foundations American Rep. OR HIST 252 Contemporary America (SS FLEX)	3	MUSC 111 Music Skills for Classroom Teachers (HUMN FLEX)	3	
MATH 116 Survey Math (STEM FLEX)	3	MATH 324 Fundamentals of Math Instruction	3	
TOTAL CREDITS		15	TOTAL CREDITS	
		15		

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 320 Integrated Methods	3	EDUC 300 Children's Literature	3
EDUC 311 Assessment & Diagnosis	3	EDUC 372 Fundamentals of Reading Instruction	3
NSCI 205 Issues in Physical Science (STEM FLEX)	4	EDUC 374 Clinical Practice / Reading Diagnosis	3
EDUC 253 Elementary PE & Health	3	EDUC 316 School Health	3
ART 341 Art Education and Instruction (HUMN FLEX)	3		
TOTAL CREDITS	16	TOTAL CREDITS	12

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 378 Elementary Methods	3	EDUC 497 Student Teaching in Content Areas	12
NSCI 206 Earth & Space Science (STEM FLEX)	3	EDUC 496 Seminar for Student Teaching / Internship	2
GEOG 303 World Geography (SS FLEX)	3		
SSCI 310 WV & Appalachian Region (SS FLEX)	3		
TOTAL CREDITS	12	TOTAL CREDITS	14

Elementary Education/Special Education (K-6) – Degree Plan

FRESHMAN YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 100 Introduction to Education	3	EDUC 250 Tech. In the Schools	3
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
HIST 211 World Cultures I (SS FLEX)	3	SPCH 103 Oral Communication Fundamentals	3
HUMN 110 Unheard Voices (HUMN FLEX)	3	MATH 121 College Algebra (STEM FLEX)	3
MATH 120 Intermediate Algebra (STEM FLEX)	3	SSCI 105 Issues in Social Science (SS FLEX)	3
UNIV 104 Orientation to University	3	UNIV 105 University. Experience	3
TOTAL CREDITS	18	TOTAL CREDITS	18

SOPHOMORE YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 204 Inclusive Classroom	3	EDUC 299 Theories of Learning & Teaching	3
PSYC 212 Life Span Development (SS FLEX)	3	ENGL XXX Literature (HUMN FLEX)	3
NSCI 117 Why Science Matters (STEM FLEX)	3	MUSC 111 Music Skills for Classroom Teachers (HUMN FLEX)	3
HIST 251 Foundations American Rep. OR HIST 252 Contemporary America (SS FLEX)	3	MATH 324 Fundamentals of Math Instruction	3
MATH 116 Survey Math. (STEM FLEX)	3	EDUC 203 Survey Students w/ Exceptionalities	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 320 Integrated Methods	3	EDUC 300 Children's Literature	3
EDUC 311 Assessment & Diagnosis	3	EDUC 372 Fundamentals of Reading Instruction	3
NSCI 205 Issues in Physical Science (STEM FLEX)	4	EDUC 374 Clinical Practice / Reading Diagnosis	3
EDUC 253 Elementary PE & Health	3	EDUC 316 School Health	3
EDUC 330 Positive Behavior Supports	3	EDUC 340 Collaboration in the Schools	3
ART 341 Art Education & Instruction (HUMN FLEX)	3		
TOTAL CREDITS	19	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 378 Elementary Methods	3	EDUC 496 Seminar for Student Teaching / Internship	2
NSCI 206 Earth & Space Science (STEM FLEX)	3	EDUC 497 Student Teaching in the Content Areas	6
GEOG 303 World Geography (SS FLEX)	3	EDUC 422 Student Teaching in Special Education	6
EDUC 360 High Incidence Disabilities	3		
SSCI 310 WV & Appalachian Region (SS FLEX)	3		
TOTAL CREDITS	15	TOTAL CREDITS	14

Secondary Special Education – Degree Plan

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
EDUC 100 Introduction to Education	3	EDUC 250 Technology in the Schools	3
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
HIST 211 World Cultures I (SS FLEX)	3	SPCH 103 Oral Communication Fundamentals	3
SSCI 105 Issues in Social Science (SS FLEX)	3	MATH 121 College Algebra (STEM FLEX)	3
MATH 120 Intermediate Algebra (STEM FLEX)	3	NSCI 117 Why Science Matters (STEM FLEX)	3
UNIV 104 Orientation to University	3	UNIV 105 University Experience	3
TOTAL CREDITS	18	TOTAL CREDITS	18

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
EDUC 204 Inclusive Classroom	3	EDUC 203 Survey Students w/ Exceptionalities	3
MATH 116 Survey Math (STEM FLEX)	3	EDUC 299 Theories of Learning & Teaching	3
PSYC 101 Intro to Psychology (SS FLEX)	3	HIST 251 Foundations of American Republic (SS FLEX)	3
ENGL 202 or 203 (Literature) (HUMN FLEX)	3	ENGL 230 or 231 (Literature) (HUMN FLEX)	3
HUMN 1XX (HUMN FLEX)	3	MATH 324 Fundamentals of Math Instruction	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
EDUC 311 Assessment and Diagnosis	3	EDUC 325 Reading in the Content Areas	3
EDUC 320 Integrated Methods	3	EDUC 340 Collaboration in the Schools	3
EDUC 330 Positive Behavior Supports	3	EDUC 300 Children's Literature	3
NSCI 333 History of Science	3	MATH 118 Geometry	3
NSCI 220 Statistics in Science and Research	3	PSYC 212 Life Span Development (SS FLEX)	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 360 High Incidence Disabilities	3	EDUC 496 Seminar for Student Teaching / Internship	2
GEOG 303 World Geography (SS FLEX)	3	EDUC 498 Student Teaching in Special Education	12
SSCI 310 WV & Appalachian Region (SS FLEX)	3		
Elective XXX	3		
TOTAL CREDITS	12	TOTAL CREDITS	14

EDUCATIONAL STUDIES PROGRAM

Elementary Studies and Child Development Degree Plan (Non-certification Track)

FRESHMAN YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 100 Introduction to Education	3	EDUC 250 Tech. In the Schools	3
COMM 101 Freshman Writing	3	COMM 102 Freshman Writing II	3
HIST 211 World Cultures I (SS FLEX)	3	SPCH 103 Oral Communication Fundamentals	3
HUMN 110 Unheard Voices (HUMN FLEX)	3	MATH 121 College Algebra (STEM FLEX)	3
MATH 120 Intermediate Algebra (STEM FLEX)	3	SSCI 105 Issues in Social Science (SS FLEX)	3
UNIV 104 Orientation to University	3	UNIV 105 University Experience	3
TOTAL CREDITS	18	TOTAL CREDITS	18

SOPHOMORE YEAR

FALL SEMESTER		SPRING SEMESTER	
EDUC 204 Inclusive Classroom	3	EDUC 203 Survey Students w/ Exceptionalities	3
PSYC 212 Life Span Development (SS FLEX)	3	EDUC 299 Theories of Learning & Teaching	3
NSCI 117 Why Science Matters (STEM FLEX)	3	ENGL XXX Literature (HUMN FLEX)	3
HIST 251 Foundations American Rep. OR HIST 252 Contemporary America (SS FLEX)	3	MUSC 111 Music Skills for Classroom Teachers (HUMN FLEX)	3
MATH 116 Survey Math (STEM FLEX)	3	MATH 324 Fundamentals of Math Instruction	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
EDUC 320 Integrated Methods	3	EDUC 300 Children's Literature	3
EDUC 311 Assessment & Diagnosis	3	EDUC 372 Fundamentals of Reading Instruction	3
NSCI 205 Issues in Physical Science (STEM FLEX)	4	EDUC 374 Clinical Practice / Reading Diagnosis	3
EDUC 253 Elementary PE & Health	3	EDUC 316 School Health	3
ART 341 Art Education and Instruction (HUMN FLEX)	3		
TOTAL CREDITS	16	TOTAL CREDITS	12

SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
EDUC 378 Elementary Methods	3	EDUC 496 Seminar for Student Teaching / Internship	2
NSCI 206 Earth & Space Science (STEM FLEX)	3	EDUC 498 Internship in Educational Studies	12
GEOG 303 World Geography (SS FLEX)	3		
SSCI 310 WV & Appalachian Region (SS FLEX)	3		
TOTAL CREDITS	12	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 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.

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 ANALYTICS AND COMPUTER SCIENCE

Dr. James Cercone, 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](#)

[DATA ANALYTICS](#)

Concentration: [CYBERSECURITY CONCENTRATION](#)

Minor: [APPLIED COMPUTER SCIENCE](#)

APPLIED COMPUTER SCIENCE

Dr. James Cercone, 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 computing fields including software development, network administration, mobile computing and web-based applications.

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

Applied Computer Science emphasizes the application of algorithms for addressing, processing, storing, and transmitting information. The core curriculum in Applied Computer Science, involving a blend of theory and practice, offers opportunities for problem solving in many areas and provides experience with a variety of computer languages and software packages which apply to both networks and mobile platforms. The program features a truly distinctive two semester professional work experience comprised of a 10 credit Co-op and a 12 credit capstone Co-op both of which provide students with the opportunity to gain practical experience through placements with technology companies and educational providers specializing in program development.

An optional Cyber Security concentration is available within the Applied Computer Science Program that offers the student additional course work in the practical aspects of writing and analyzing secure code.

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 requires a minimum of 121 credits, including 76 credits of academic work, including 7 credits of mathematics, and 24 credits of co-op and capstone experiences.

Standard Four-Year Path

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
Humanities Flex Course	3	MATH 201 Calculus 1 (STEM Flex)	4
COSC 110 Computer Science 1 (STEM Flex)	3	COSC 120 Computer Science 2	3
COSC 110L Computer Science 1 Lab	1	COSC 120L Computer Sci. 2 Lab	1
Elective *	3	SPCH 103 Speech (embedded)	3
UNIV 104 College Motivation & Success	3	UNIV 105 Foundations of Character & Leadership	3
TOTAL CREDITS	16	TOTAL CREDITS	17

* Math 123 (if needed)

SOPHOMORE YEAR

FALL SEMESTER		SPRING SEMESTER	
MATH 225 Discrete Math (Elective Flex)	3	MATH 230 Linear Algebra	3
COSC 280 Data Structures	3	MATH 240 Prob and Stat	3
COSC 240 Digital Logic	3	COSC 315 Database Systems	3
COSC 240L Digital Logic Lab	1	COSC 250 Comp Arch & Org	3
Humanities Flex Course	3	Soc. Sci. Flex Course	3
Restricted Flex Elective **	3		
TOTAL CREDITS	16	TOTAL CREDITS	15

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
COCS 390 CS Workshop 1	1	COSC 391 CS Workshop 2	1
COSC 310 Software Engineering	3	COSC 355 Mobile Computing	3
COSC 360 Web App Development	3	COSC 340 Operating Systems	3
COSC 330 Embedded Systems	3	COSC 420 Adv CS Math	3
COSC 345 Computer Networks	3	Restricted Elective **	3
Restricted Elective **	3	Restricted Elective **	3
TOTAL CREDITS	16	TOTAL CREDITS	16

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
COSC 440 Co-op Experience	10	COSC 450 Capstone	12
Soc. Sci. Flex Course	3		
TOTAL CREDITS	13	TOTAL CREDITS	12

** Restricted electives are pre-approved from any COSC, DASC, or CYBER offerings. Other restricted electives require departmental approval.

121 Credit Hours Total

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.

- 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.

CYBER SECURITY CONCENTRATION IN APPLIED COMPUTER SCIENCE

Cybersecurity programs typically provide a firm background in the detection, protection, policies and procedures surrounding computer software and communications. The Cybersecurity Concentration within the BS Applied Computer Science has chosen an alternate path with a more “nuts and bolts” approach. The program concentrates on the "mechanics" of software in terms of security as a complement to more traditional Cyber Security programs.

The Cybersecurity Concentration extends the Applied Computer Science offerings through study of the actual means of developing safe secure code, how to do a deep dive (assembly language) into existing code development, how to examine "infected" code (computer forensics), broaden students’ background with a second widely used operating system on the server side (Linux), how to control remote systems and push out patches (computer scripting), and generally concentrate on code related security matters as opposed to management issues.

Standard Four-Year Path

FRESHMAN YEAR					
FALL SEMESTER			SPRING SEMESTER		
COMM 101	Freshman Writing I	3	COMM 102	Freshman Writing II*	3
HUM Course	Humanities Flex	3	MATH 201	Calculus 1 STEM Flex	4
COSC 110	Computer Science 1	3	COSC 120	Computer Science 2	3
COSC 110L	Computer Science 1 Lab	1	COSC 120L	Computer Sci. 2 Lab	1
	Flex Elective *	3	SPCH 103	Speech (embedded)	3
UNIV 104	College Motivation	3	UNIV 105	Foundations	3
TOTAL CREDITS		16	TOTAL CREDITS		17

* Math 123 (if needed)

**SOPHOMORE
YEAR**

FALL SEMESTER			SPRING SEMESTER		
MATH 225 Discrete Math STEM Flex	3		COSC 220 Assembly Language		3
COSC 280 Data Structures	3		MATH 240 Prob and Stat		3
COSC 240 Digital Logic	1		COSC 315 Database Systems		3
COSC 240L Digital Logic Lab	3		COSC 250 Comp Arch & Org		3
COSC 230. Linux	3		SSCI Soc. Sci. Flex Course		3
HUMN Humanities Flex Course	3				
TOTAL CREDITS	16		TOTAL CREDITS		15

JUNIOR YEAR

FALL SEMESTER			SPRING SEMESTER		
COCS 395 CS Workshop 1	1		COSC 396 CS Workshop 2		1
COSC 310 Software Engineering	3		COSC 355 Mobile Computing		3
COSC 360 Web App Development	3		COSC 340 Operating Systems		3
COSC 330 Embedded Systems	3		COSC 325. Computer Scripting		3
COSC 345 Computer Networks	3		COSC 460. Secure Code		3
Restricted Flex Elective **	3		COCS 470. Computer Forensics		3
TOTAL CREDITS	16		TOTAL CREDITS		16

SENIOR YEAR

FALL SEMESTER			SPRING SEMESTER		
COSC 440 Co-op Experience	10		COSC 450. Capstone		12
SSCI Soc. Sci. Flex Course	3				
TOTAL CREDITS	13		TOTAL CREDITS		12

** Restricted electives are pre-approved from any COSC, DASC, or CYBER offerings. Other restricted electives require departmental approval.

121 Credit Hours Total

Applied Computer Science Workshop and Co-op Experience

Students gain valuable “applied” knowledge through a series of work experiences. Entering the junior year, students are required to complete a two semester on campus workshop followed by an extensive senior year off campus experience.

CS Workshop 1 (1 hr) on campus

CS Workshop 2 (1 hr) on campus

CS Co-op 1 (10 hrs)

CS Capstone Co-op 2 (12 hrs)

This scheme is designed for flexibility. **Normally Co-op 1 and Co-op 2 will be a two-semester sequence during the senior year.**

Student athletes who participate in fall or spring sports can request a variance such that the Co-op sessions can be split to accommodate their participation in sports. Students should be aware that degree completion may require one additional semester of enrollment if they chose that option.

Transfer students or students with unusual situations may also consider an alternate Co-op schedule, again recognizing the potential need for an additional semester for degree completion.

	Jr. Fall	Jr. Spring	Jr/Sr Summ	Sr Fall	Sr Spring
Main	CS W1	CS W2		Co-op 1	Co-op 2
Alt 1	CS W1	CS W2	Co-op 1	Co-op 2	<i>(Spring Sport</i>
Alt 2	CS W1	CS W2	Co-op 1	<i>(Fall Sports ?</i>	Co-op 2

Possible Co-op Schedules Computer Science Workshop 1 & 2

The students will complete two “CS Workshops” on campus would during the sophomore/ junior year. The student will serve in one of several different capacities (all under department supervision) as part of these workshops. Possible assignments include:

1. Provide lab support to become familiar with typical problems and issues dealing with our “student” customers.
2. Be assigned to work with UCs IT departments to provide additional IT support.
3. Assigned to specific projects housed in other academic units.

Co-op 1

The Co-op 1 is mainly intended for the fall semester and requires students to work full time at an offsite location. Note, this represents a 10 to 14-week session. Students will additionally be expected to complete a 3 hours general core course on-line. A 12-hour version of Co-op 1 is available for the exceptional student. Students can arrange with their Co-op employers for mutually agreed upon additional work hours.

Ideally, Co-op 1 will be connected to a Spring Co-op 2 (the Capstone Internship) so that a 28-week connected project can be completed.

Co-op 1 can be a standalone experience allowing for students with unusual circumstances, the occasional campus-based co-op, or transfer considerations to be accommodated.

Co-op 2 Capstone Internship

This is an off campus required industry/government supported Co-op. It is intended to be a 14-week session coupled with weekly skype evening class meetings. Students will be paired with external agencies to work on a well-defined project that can be documented and publicly presented.

The capstone Co-op 2 experience will normally be a continuation of Co-op 1. In some cases, the Co-op 1 and Co-op 2 experiences may not be coupled.

APPLIED COMPUTER SCIENCE MINOR

Students pursuing other academic majors may complete a 20 hour Applied Computer Science Minor.

COSC 110/110L	Computer Science I & Lab	4
COSC 120/120L	Computer Science 2 & Lab	4
COSC 280	Data Structures	3
COSC 315	Intro to Database Systems	3
COSC 340	Operating Systems	3
COSC 345	Computer Networks	3
Total Credits		20

DATA ANALYTICS MAJOR

Dr. James Cercone, 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 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. Students have the opportunity to choose a minor focus area that provides domain expertise.

There are four major components that comprise the Data Analytics Major:

Mathematics

Focused Topics in Data Analytics

Computer Science

A concentrated application area – Domain Knowledge

Mathematics is the heart of analytics. The analysis of data requires the conditioning , metrics creation, feature extraction, statistics, data compression, and the underlying mathematics that drive the generation of decision points (the nuts and bolts of non-linear neural networks, fuzzy logic, Bayesian logic, etc.).

Focused Topics utilize the conditioned data in order to classify, visualize, train learning networks, and simulate new scenarios. The end goal is using the collected data to make informed decisions.

Data in a void has little value. Topics in **Computer Science** enable the student of analytics to collect data from external sensors, databases, data mined from the web, and a host of other sources. This data needs to be conditioned (with the mathematics) stored, transmitted, received, archived, and made secure using the tools of computer science. The current state of the art contains a wide array of different software systems and protocols. Generation of “middle ware” to interconnect these disjoint systems becomes a major part of a data analyst workload.

Given the wide range of areas that a data analyst might encounter, it seems prudent that each student gain at least an introductory level knowledge in an additional field of study. This **“Domain Knowledge”** will typically be comprised of a minor from one of the existing programs at UC. No restrictions will be placed on the selection of a minor. As an alternate approach, students with unusual goals or existing background credits and/or experience will be able to develop a set of focused domain specific electives in conjunction with their advisor.

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.

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.

What You Will Study

The Data Analytics degree program requires a minimum of 121 credits, including 45 credits of academic work, 8 credits of Computer Science, 13 credits of mathematics and statistics, and a 3-credit hour internship.

Standard Four-Year Path

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
Flex Elective *	3	MATH 201 Calculus I (Flex Elective)	4
COSC 110 Computer Science I (STEM Flex)	3	COSC 120 Computer Science II	3
COSC 110L Computer Science I Lab	1	COSC 120L Computer Science II Lab	1
DASC 100 Intro. Sci. Prog. (STEM Flex)	3	SPCH 103 Speech (embedded)	3
UNIV 104 College Motivation & Success	3	UNIV 105 Foundations of Character & Leadership	3
TOTAL CREDITS	16	TOTAL CREDITS	17

* Math 123 (if needed)

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
MATH 225 Discrete Math (Flex Elective)	4	MATH 230 Linear Algebra	3
COSC 280 Data Structures	3	DE 1 Domain Emphasis *	3
DASC 101 Intro to Data Science	3	COSC 315 Database Systems	3
STAT 101 Stat. for Data Science	3	MATH 240 Prob and Stat	3
Humanities Flex Course	3	Soc. Sci. Flex Course	3
TOTAL CREDITS	16	TOTAL CREDITS	15

JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
DASC 200 Intro. to Data Mining	3	DASC 250 Data Visualization	3
COSC 360 Web App Development		DASC 310 Machine Learning	

	3		3
Elective	3	DASC 330 Mod. and Simulation	3
COSC 345 Computer Networks	3	DE 3 Domain Emphasis *	3
DE 2 Domain Emphasis *	3	Soc. Sci. Flex Course	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
DASC 375 Natural Lang. Processing	3	DASC 475 Capstone	3
DASC 450 Data Science Internship	3	COSC 420 Adv CS Math	3
Humanities Flex Course	3	Elective	3
DE 4 Domain Emphasis *	3	DE 6 Domain Emphasis*	3
DE 5 Domain Emphasis *	3		
TOTAL CREDITS	15	TOTAL CREDITS	12

* Domain Emphasis courses are typically comprised of an existing UC minor. Other electives require an approved departmental plan.

121 Credit Hours Total

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 General Studies major offer students the opportunity to design their own learning experience in an individualized way.

Majors in the Department

[COMMUNICATION](#)

[DIGITAL MEDIA DESIGN](#)

[ENGLISH AND PROFESSIONAL WRITING](#)

[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 AND PROFESSIONAL WRITING](#)

[DIGITAL MEDIA DESIGN](#)

[MUSIC](#)

ART MINOR

Professor Terry Floyd, Coordinator

Mission Statement

The Art minor 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.

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.

The Art minor requires that the student complete 21 credits of courses in Art and Digital Media Design.

Art Core Components

Art and Digital Media Design Courses		
Course	Title	Credits
Foundation Courses 9 Hours		
ART 100	Drawing	3
ART 201	Painting	3
ART 223	Art History: Modern Art	3
Intermediate Courses 6 Hours		
ART 250	Photography	3
DMDS 210	3D Design and Product Development	3
Advanced Courses 6 Hours		
ART 305	Art Studio I	3
ART 310	Art Studio II	3

4 Semester Plan

FIRST YEAR			
Fall Semester		Spring Semester	
ART 100 Drawing	3	ART 201 Painting	3
ART 223 Art History: Modern Art	3	ART 250 Photography	3
Total Credits	6	Total Credits	6

SECOND YEAR			
Fall Semester		Spring Semester	
DMDS 210 3D Design and Product Development	3	ART 310 Art Studio II	3
ART 305 Art Studio I	3		
Total Credits	3	Total Credits	3

6 Semester Plan

FIRST YEAR			
Fall Semester		Spring Semester	
ART 100 Drawing	3	ART 201 Painting	3
ART 223 Art History: Modern Art	3		
Total Credits	6	Total Credits	3

SECOND YEAR			
Fall Semester		Spring Semester	
DMDS 210 3D Design and Product Development	3	ART 250 Photography	3
Total Credits	3	Total Credits	3

THIRD YEAR			
Fall Semester		Spring Semester	
ART 305 Art Studio I	3	ART 310 Art Studio II	3
Total Credits	3	Total Credits	3

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, digital media 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 and 9 credits of electives.

Program Core requirements	
Course	Credit
ICOM 151 Human Communication	3
ICOM 201 Public Speaking	3
DMDS 201 Digital Media and Graphics	3
ICOM 221 Introduction to Journalism	3
ICOM 225 Introduction to Public Relations	3
ICOM 305 Public Relations Campaigns	3
ICOM 361 Practicum in Communication	3
ICOM 362 Public Relations Writing	3
ICOM 400 Communication Research & Theory	3
ICOM 405 Senior Project in Communication	3
ICOM 441 Communication Law & Ethics	3
ICOM 480 Seminar in Professional Development	3
ICOM 498 Communication Internship	3
Total	39

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.

Typical First Year Schedule			
Fall		Spring	
Course	Credits	Course	Credits
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
ICOM 225 Introduction to Public Relations	3	SPCH 103 Oral Communication Skills	3
NSCI 117 Why Science Matters (STEM Flex)	3	ICOM 151 Human Communication	3
PSYC 101 Introduction to Psychology (SS Flex)	3	MATH 120 Intermediate Algebra (STEM Flex)	3
UNIV 104 College Motivation & Success	3	UNIV 105 Found of Character & Leadership	3
Total 15		Total 15	

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 201 Public Speaking

ICOM 221 Introduction to Journalism

ICOM 305 Public Relations Campaigns

ICOM 314 Persuasive Communication

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.

YEAR ONE			
Fall Semester		Spring Semester	
Course	Credit	Course	Credit
UNIV 104 College Motivation & Success	3	UNIV 105 Found of Character & Leadership	3
NSCI 117 Why Science Matters (STEM Flex)	3	SPCH 103 Oral Communication Skills	3
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
ICOM 225 Introduction to Public Relations	3	ICOM 151 Human Communication	3
PSYC 101 Introduction to Psychology (SS Flex)	3	MATH 120 Intermediate Algebra (STEM Flex)	3
Total:	15	Total:	15
YEAR TWO			
Fall Semester		Spring Semester	
Course	Credit	Course	Credit
ICOM 201 Public Speaking	3	ICOM 362 Public Relations Writing	3
BUSI 151 Introduction to Business	3	ICOM 221 Introduction to Journalism	3
FINA 201 Financial Literacy or ACCT 201 Principles of Accounting I	3	ENGL 340 Creative Writing (Humanities Flex)	3
ART 250 Photography (Elective Flex)	3	POLS 101 American National Government (SS Flex)	3
DMDS 201 Digital Media & Graphics (Humanities Flex)	3	ICOM 361 Practicum in Communication	3
Total:	15	Total:	15
YEAR THREE			
Fall Semester		Spring Semester	
Course	Credit	Course	Credit
ICOM 498 Communication Internship	3	DMDS 202 Image Manipulation & Web Aes (Elective Flex)	3

ICOM 325 Feature Writing	3	DMDS 302 Web & Social Media Design	3
ICOM 400 Communication Research & Theory	3	ICOM 325 Feature Writing	3
ICOM 364 Social Media Strategies	3	MRKT 321 Principles of Marketing	3
ICOM 305 Public Relations Campaigns	3	ICOM 314 Persuasive Communication	3
Total:	15	Total:	15

YEAR FOUR

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
ICOM 441 Communication Law & Ethics	3	ICOM 405 Senior Project in Communication	3
MRKT 401 Advertising	3	ICOM 480 Seminar in Professional Development	3
Elective or minor course	3	Elective or minor course	3
Elective or minor course	3	Elective or minor course	3
Elective or minor course	3	Elective or minor course	3
Total:	15	Total:	15

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 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. 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 are encouraged to join UC's DREAAM Studio and participate in developing digital workshops, think tanks, and other activities for UC and the community.

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:

2. Develop an understanding of technical knowledge, design skills, and conceptual development in digital media.
3. Apply principles of design, coding, computer techniques, and visual communication.
4. Research, evaluate, reflect, and assess the characteristics and merits of personal work and the work of others.
5. Communicate in written and oral forms knowledge of design and how it has developed.

6. 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 34 to 37 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 general education requirements and electives for a minimum total of 120 credits.

Digital Media Design Core Components		
Course	Title	Credits
DMDS 101	Introduction to Digital Media Design	3
DMDS 201	Digital Media and Graphics	3
DMDS 202	Image Manipulation and Web Aesthetics	3
DMDS 210	3D Design and Product Development	3
DMDS 301	Animation, Motion, and Editing	3
DMDS 302	Web and Social Media Design	3
DMDS 310	Ideas and Visualization Studio	3
DMDS 311	Social Media and Product Development	3
DMDS 312	User Interface and Web Development Studio	3
DMDS 410	Digital Media Design Senior Capstone	4
DMDS 490	Digital Media Design Internship	3 or 6
Digital Media Design Core		34 or 37
Required Courses Outside of Major		
BUSI 151	Introduction to Business	3
COSC 110+110L	Computer Science I and Lab	4
COSC 120+120L	Computer Science II and Lab	4
MATH 120	Intermediate Algebra	3
ICOM 151	Introduction to Human Communications	3
ICOM 441	Communication Law and Ethics	3
Require Courses Outside of Major		20

Standard Four-Year Path

FRESHMAN YEAR			
Fall Semester		Spring Semester	
DMDS 101 Intro to Digital Media Design (HUMN Flex)	3	DMDS 202 Image Manipulation and Web Aesthetics	3
DMDS 201 Digital Media and Graphics	3	ICOM 151 Human Communications (HUMN Flex)	3
MATH 120 Intro to College Algebra (STEM Flex)	3	UNIV 105 Foundations of Character & Leadership	3
BUSI 151 Intro to Business	3	SPCH 103 Speech	3
COMM 101 Freshman Writing	3	COMM 102 Freshman Writing	3
UNIV 104 College Motivation and Success	3	Social Science Flex Course	3
Total Credits	18	Total Credits	18

SOPHOMORE YEAR			
Fall Semester		Spring Semester	
DMDS 210 3D Design and Product Development	3	DMDS 301 Animation, Motion, and Editing	3
COSC 110 + Lab Computer Science I (STEM Flex)	4	DMDS 310 Ideas and Visualization Studio	3
Social Science Flex Course	3	COSC 120 + Lab Computer Science II	4
Elective Flex Course	3	Elective Flex Course	3
Minor	3	Minor	3
Total Credits	16	Total Credits	16

JUNIOR YEAR

Fall Semester		Spring Semester	
DMDS 302 Web and Social Media Design	3	DMDS 312 User Interface and Web Development	3
DMDS 311 Social Media and Product Development Studio	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Total Credits	15	Total Credits	15

SENIOR YEAR

Fall Semester		Spring Semester	
DMDS 410 Digital Media Design Capstone	4	DMDS 490 Digital Media Design Internship	3 or 6
ICOM 441 Communication Law and Ethics	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Total Credits	13	Total Credits	12 or 15

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.

DIGITAL MEDIA DESIGN MINOR

The Digital Media Design minor is designed for students who want to enhance skills and abilities with digital media. Students will gain knowledge of the process for creating Social Media and Websites Aesthetics, Animation, and Visual products. Also, Students will gain experience using industry-standard computer software while acquiring an understanding of digital media and the design process. This minor is an excellent

complement for students majoring in Communications, Digital Marketing, Business Administration, Applied Computer Science, Political Science, Health Care, and others.

The minor in Digital Media Design requires that the student complete 18 credits of courses in Digital Media Design.

Digital Media Design Minor		
Foundation Courses 12 Hours		
Course	Title	Credits
DMDS 101	Introduction to Digital Media Design	3
DMDS 201	Digital Media and Graphics	3
DMDS 202	Image Manipulation and Web Aesthetics	3
DMDS 210	3D Design and Product Development	3
Intermediate Pick One Course 3 Hours		
DMDS 301	Animation, Motion, and Editing	3
DMDS 302	Web and Social Media Design	3
Advanced Pick One Course 3 Hours		
DMDS 310	Ideas and Visualization Studio	3
DMDS 311	Social Media and Product Development Studio	3
Total Credits		18

Semester Plan

FIRST YEAR			
Fall Semester		Spring Semester	
DMDS 101 Intro to Digital Media Design	3	DMDS 202 Image Manipulation and Web Aesthetics	3
DMDS 201 Digital Media and Graphics	3		
Total Credits	6	Total Credits	3

SECOND YEAR			
Fall Semester		Spring Semester	
DMDS 210 3D Design and Product Development	3	DMDS 310 Ideas and Visualization Studio	3
DMDS 302 Web and Social Media Design	3		
Total Credits	6	Total Credits	3

Semester Plan

FIRST YEAR

Fall Semester		Spring Semester	
DMDS 101 Intro to Digital Media Design	3	DMDS 202 Image Manipulation and Web Aesthetics	3
DMDS 201 Digital Media and Graphics	3		
Total Credits	6	Total Credits	3

SECOND YEAR

Fall Semester		Spring Semester	
DMDS 210 3D Design and Product Development	3	DMDS 301 Animation, Motion, and Editing or DMDS 310 Ideas and Visualization Studio	3
Total Credits	3	Total Credits	3

THIRD YEAR

Fall Semester	
DMDS 311 Social Media and Product Development Studio or DMDS 302 Web and Social Media Design	3
Total Credits	3

ENGLISH AND PROFESSIONAL WRITING MAJOR

Dr. Jeannie Dalporto, Program Director

The English program provides a valuable educational experience for students who need the kinds of skills that employers increasingly demand—reading, writing, research, and critical thinking. The program’s flexibility allows students to acquire specific knowledge in media writing, graphic design, public relations, and other areas in order to gain real world application of these skills. The English program at UC emphasizes the following career paths for English majors: writers for web sites, businesses, media outlets, and nonprofit organizations.

English majors will experience the following:

- Opportunity to work on the campus newspaper *The Eagle*.
- Opportunity to join the student organization, DREAAM Studio, and to work on a student magazine and learn to design documents and graphics for various media.
- Potential to join *Sigma Tau Delta*, a national English honorary, and gain access to scholarships and publishing opportunities.
- Ability to double major or minor in ICOM, Digital Media, Psychology, Political Science, and Business.
- Opportunities for internships with media companies, nonprofit corporations, and other organizations.
- Preparation for a variety of career interests, including government, law, nonprofits, business, media, teaching, and graduate school.

Program Mission Statement

The mission of the English Program is to prepare students for a life of enlightened living, productive work, and community service, by helping students learn to communicate effectively and develop sophisticated reading, writing, critical thinking, and research skills.

Program Outcomes

Graduates with the **English major** will be able to:

1. 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.
2. 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.
3. Conduct research (electronic and non-electronic) for the purpose of exploring, documenting, evaluating, and publishing conclusions orally and in writing.

4. Communicate effectively to a variety of audiences and in a variety of modes.
5. Demonstrate knowledge and application of digital media principles and/or knowledge and application of principles in the field of communications.

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.

What You Will Study

The major in English consists of at least 120 credit hours, including a total of 40 hours in the program. Program requirements include 25 credits in the English core and 15 hours of electives in the ICOM and/or DMDS programs. Students are encouraged to double major or minor in the following areas: ICOM, DMDS, PSYC, POLS, BUSI, or others.

English Core

Choose 2 courses (6 credits) from the following:

ENGL 203	British Literature: Romantics to the 20 th Century	3 credits
ENGL 224	American Literature Survey II	3 credits
ENGL 230	Western World Literature	3 credits
ENGL 231	Non-Western World Literature	3 credits

Total: 6 credits

ENGL 345	Advanced Writing	3 credits
ENGL 405	English capstone	3 credits
ENGL 361	<i>The Eagle</i> newspaper or Internship	1 credit

Total: 7 credits

Literature Electives (12 credits) – Choose 4 courses from the following:

ENGL 307	Appalachian Literature	3 credits
ENGL 312	Shakespeare	3 credits
ENGL 320	Multi-ethnic Literature	3 credits
ENGL 326	Literature and Gender	3 credits
ENGL 336	Literature and Film	3 credits
ENGL 360	Harry Potter	3 credits
ENGL 340	Creative Writing	3 credits

Total: 12 credits

ICOM and/or DMDS Electives

Choose 5 courses (15 credits) from the following:

ICOM and/or DMDS 200-300 level courses

Total: 15 credits

Total for the Major: 40 credits

Additional Requirements

Students must receive a minimum grade of “C” or better for each of the program courses and ENGL 405, English Capstone. In addition, students must meet all of the graduation requirements of the University.

Standard Four-Year Path

FRESHMAN YEAR			
Fall Semester		Spring Semester	
ENGL 2XX (HUMN Flex)	3	STEM FLEX	3
SS FLEX Course	3	ENGL 2XX (HUMN Flex)	3
Elective	3	UNIV 105 Foundations of Character & Leadership	3
UNIV 104 College Motivation and Success	3	SPCH 103 Speech	3
COMM 101 Freshman Writing	3	COMM 102 Freshman Writing	3
Total Credits	15	Total Credits	15

SOPHOMORE YEAR			
Fall Semester		Spring Semester	
ENGL 3XX (Elective Flex Course)	3	ENGL 3XX (Elective Flex Course)	3
Elective	3	STEM FLEX	3
SS FLEX	3	ICOM or DMDS Elective	3
ICOM or DMDS Elective	3	ICOM or DMDS Elective	3
ENGL 361	1	Elective (Minor)	3
Total Credits	16	Total Credits	15

JUNIOR YEAR

Fall Semester		Spring Semester	
ENGL 3XX	3	ENGL 3XX	3
ICOM or DMDS Elective	3	ICOM or DMDS Elective	3
Elective (Minor)	3	Elective (Minor)	3
Elective	3	Elective	3
Elective	3	Elective	3
Total Credits	15	Total Credits	15

SENIOR YEAR

Fall Semester		Spring Semester	
ENGL 345	3	ENGL 405	3
Elective (Minor)	3	Elective (Minor)	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Total Credits	15	Total Credits	15

MINOR IN ENGLISH

Requirements for the Minor

The minor in English consists of 18 credits:

Choose 1 course (3 credits) from the following:

ENGL 203 Survey of British Literature: from Romantics to 20th Century

ENGL 224 Survey of American Literature II

ENGL 230 Survey of Western World literature

ENGL 231 Survey of Non-Western World literature

Choose 3 courses (9 hours) from the following:

ENGL 320—Multi-ethnic literature

ENGL 326—Literature and Gender

ENGL 307—Appalachian literature

ENGL 336—Literature and Film

ENGL 360—Harry Potter

ENGL 312—Shakespeare

ENGL 340—Creative writing

ENGL 345—Advanced writing

ENGL 361—*Eagle* newspaper (up to 3 credit hours may be counted)

Choose 2 courses (6 hours) of 200 and/or 300-level ICOM and/or DMDS electives

Total for the minor: 18 Credits

GENERAL STUDIES MAJOR

Dr. Joseph Janisch, Program Director

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 Institutional Learning Outcomes.

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 General Education Requirements
- 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 Chillag, Program Director

Often, students possess a broad range of interests that do not fit into a “traditional” major. Further, many professions and graduate and/or professional programs of demand interdisciplinary thinking. As a result, the MTDS 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 MTDS degree program consists of a course of study comprised of three academic minors from various disciplines, plus an MTDS 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 MTDS 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 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
- Successfully complete the General Studies Capstone course.

Approved Academic Minor	Credits Required for Minor	Approved Academic Minor	Credits Required for Minor
Regional Studies	18	Communication	18
Art	18	Music	23
Biology	19	Organizational Leadership	18
Business Administration	21	Political Science	18
Chemistry	18	Professional Writing in English	18
Criminal Justice	18	Psychology	18
Entrepreneurship	19	Sport Business	18
Graphic Design	21	Strength & Conditioning	18
History	18		

MUSIC MINOR

Dr. Joseph Janisch, Coordinator

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 course work; 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 innature;
- 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

- Areas of emphasis
 - General Biology
 - Environmental Biology
 - Biomedical Sciences
 - Data Analytics

CHEMISTRY

- Concentrations
 - [Pre-Professional](#)
 - [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 General Education 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 Senior Seminar in their Senior Year

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 your major's capstone research seminar learning experiences. Breaking the sequence, skipping a requirement, or failing to complete events by required dates will delay graduation.

Biology Program

- Complete BIOL 130 and NSCI 220 prior to attaining 60 credits.
- Research experience in Upper level electives or independent research experience
- BIOL 496 Senior Year

Chemistry Program*

- 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, CHEM 495 must be completed by the end of the fall semester of the senior year. Students will not be allowed to take CHEM 495 and 496 simultaneously.

*Chemistry-Biology Dual Majors will follow the Chemistry Capstone

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

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 admissions test reviews (e.g. MCAT, PCAT) lead by Professors in their specialties
- Laboratory sections taught by Professors
- Four areas of emphasis 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 work as a biologist, pursue graduate work, professional school or to teach biology. 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.

Biology Program Philosophy

The Biology program at UC provides a rigorous curriculum grounded on a variety of biological disciplines (organismal biology, molecular biology, environmental science and biomedical science), along with intensive laboratory courses, field work, experiential learning, and research opportunities. By the time our students graduate, they will be equipped with the theoretical and practical skills necessary to be competitive and successful applicants for employment or admission to professional or graduate school in the biological, medical or environmental sciences. Our most recent 3-year aggregate data (2017-2019) shows that 84% of our graduates are successfully admitted to professional and graduate schools or have employment in a related area.

We foster a student-centered atmosphere where student learning, discovery, and self-reflection are embedded throughout the curriculum. Innovation, analytics and critical thinking are cultivated by providing opportunities for independent research projects both inside and outside of the curriculum. Most of our upper division courses are inquiry-based courses which help in bridging the gap between understanding foundational biological concepts to practicing scientific inquiry. Our strong biology curricular core is complemented by foundational chemistry, physics and mathematics courses which ensure our graduates are not only well rounded in the natural sciences but have acquired the necessary requirements for any professional and graduate program.

Our diverse faculty is dedicated to excellent teaching, service in all areas and to research. Our departmental teaching philosophy is based on the belief that using a combination of passive and active learning activities in small class sizes will help

develop self-regulated independent students who will be life-long learners. In addition, our facilities, laboratories and equipment support this teaching philosophy.

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. The graduate effectively communicates ideas and presents results using proper English grammar, vocabulary, and conventional scientific format in both written and oral formats.
2. The graduate demonstrates comprehension of biological content knowledge from atoms to ecosystems through coursework.
3. The graduate demonstrates the use of scientific methodology to summarize data in tabular or graphical form.
4. The graduate demonstrates the ethical use of resources, data, and behavior.
5. The graduate demonstrates the ability to integrate content from math, chemistry, physics and technology to answer biological questions.

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.

Core Program of study

The Bachelor of Science in Biology requires a total of 120 credit hours of coursework. The student must fulfill 27 credit hours in General education requirements

for the University. Through thoughtful and intentional advising, we make sure the general education choices count toward the student's graduate or professional school requirements. Biology majors must take 48 credits which are a foundational set of courses listed below.

CORE Science and Math courses – 48 CREDIT HOURS		
BIOL 130	Introductory Biology for Majors (with lab)	4 credits
BIOL 2xx	Introduction to Cell Physiology and Biochemistry (with lab)	4 credits
BIOL 331	Microbiology (with lab)	4 credits
BIOL 332	Genetics (with lab)	4 credits
BIOL 496	Biology Capstone	1 credit
NSCI 220	Statistics for Science and Research	3 credits
CHEM 101	General Chemistry I (with lab)	4 credits
CHEM 102	General Chemistry II (with lab)	4 credits
CHEM 201	Organic Chemistry I (with lab)	4 credits
CHEM 202	Organic Chemistry II (with lab)	4 credits
MATH 201	Calculus I	4 credits
PHSC 201	Physics I (with lab)	4 credits
PHSC 202	Physics II (with lab)	4 credits

In addition, students take 24 credits in four keystone areas of biology: organismal biology, molecular biology, ecology, and biomedical sciences. All biology courses are classified into each of these categories. Every student in the major will be required to take a number of courses (experiences) in each of these areas, but they can choose from this pre-approved list. Some courses may be listed in more than one area but shall only count once. This flexible approach ensures that everyone who graduates with a Biology major from UC has taken courses in these keystone areas. This coursework better prepares graduates in current areas of biology and it allows students to explore the areas of emphasis before they commit to one.

Major Requirements– 24 CREDIT HOURS		
Organismal Biology	Select 3 from the following:	
BIOL 215	Botany (with lab)	4 credits
BIOL 224	Zoology (with lab)	4 credits
BIOL 301	Anatomy and Physiology I (with lab)	4 credits
BIOL 302	Anatomy and Physiology II (with lab)	4 credits
Molecular Biology	Select 1 from the following:	
BIOL 3xx	Introduction to Bioinformatics	4 credits
BIOL 419	Micro Eco Health/Disease (with lab)	4 credits
BIOL 451	Cell and Molecular Biology (with lab)	4 credits
BIOL 453	Virology (with lab)	4 credits
CHEM 410	Biochemistry	4 credits
Ecology	Select 1 from the following:	
BIOL 128	Biology and Chemistry of Nat Eco in WV (with lab)	4 credits
BIOL 3xx	GIS for Biologists	4 credits
BIOL 3xx	Soil Biology (with lab)	4 credits
BIOL 400	Ecology (with lab)	4 credits
BIOL 413	Appalachian Flora (with lab)	4 credits
BIOL 419	Micro Eco Health/Disease (with lab)	
BIOL 430	Limnology (with lab)	4 credits
Biomedical Science	Select 1 from the following:	
BIOL 303	Medical Terminology	3 credits
BIOL 321	Animal Parasitology	4 credits
BIOL 333	Immunology (with lab)	4 credits
BIOL 370	Physiology of Exercise	3 credits
BIOL 420	Pathophysiology I	3 credits
BIOL 421	Pathophysiology II	3 credits
BIOL 422	Embryology (with lab)	4 credits
BIOL 419	Micro Eco Health/Disease (with lab)	4 credits
BIOL 453	Virology (with lab)	4 credits

Concentrations

The biology program offers 4 concentrations listed below. Each area requires at least 16 credits hours. These credits are in addition to the core requirements, the major requirements and the General education requirements and count towards the 120 credit hours needed to complete the bachelor's degree. These concentrations help students to provide structure to electives, develop in their fields of interest and provide expertise in a field within biology for students seeking admission to post-baccalaureate programs or employment.

The concentrations are:

- General Biology
- Biomedical Sciences
- Environmental Biology
- Data analytics

General Biology

The General Biology concentration is the most general of the tracks, offering a flexible yet robust curriculum for students interested in a broader understanding of biology. The additional 16 credit hours required are chosen from the list of upper division courses shown above, one from each major category (organismal biology, molecular biology, ecology and biomedical sciences). Even though this concentration prioritizes breadth over focus, it is still appropriate for all professions that require a major in biology and will prepare students for graduate school, professional school or employment. If a student is unsure about what to do with their biology major and/or wants to take a wider variety of the courses which are part of the Biology curriculum, then the General Biology concentration may be the best choice for them.

Students in this concentration take one additional course in each major area. Courses in the concentration must be different than those taken as part of the major requirements.

- One additional Organismal biology course
- One additional Molecular biology course
- One additional Ecology course
- One additional Biomedical sciences course

Biomedical Sciences

This concentration is designed for the undergraduate student with an aptitude for the biological sciences and who plans to attend a professional school in the health sciences including but not limited to Medical school, Pharmacy school, Physician Assistant program, Dental school, Chiropractic school, and Physical Therapy school.

While many of the courses in our biology curriculum core ensure our graduates have acquired the necessary requirements for any professional and graduate program, this concentration allows students to take more specialized courses in areas of human health that will make them stand out as candidates. Students can explore topics such as pathophysiology, embryology, virology and more. Students may also consider taking approved classes from other departments to expand the breadth of their degree. For example, some courses in Health Sciences and Psychology may be used to fulfill the requirements of this concentration (e.g. nutrition or health psychology). This concentration also works well with the 3+1 pathway from UC Pharmacy school allowing students to graduate with a B.S. in Biology by completing year one of the professional program and using those courses as the biomedical science concentration courses.

Students in this concentration take four additional courses in the biomedical sciences area. Courses in the concentration must be different than those taken as part of the major requirements.

- BIOL 303 Medical Terminology
- BIOL 321 Animal Parasitology
- BIOL 333 Immunology (with lab)
- BIOL 370 Physiology of Exercise
- BIOL 420 Pathophysiology I
- BIOL 421 Pathophysiology II
- BIOL 422 Embryology (with lab)
- BIOL 419 Micro Eco Health/Disease (with lab)
- BIOL 453 Virology (with lab)
- PHAR 520 Pathophysiology*
- PHAR 511 Drug Literature Evaluation*
- PHAR 512 Immunology*
- PHAR 513 Biochemistry*
- PHAR 524 Clinical Research Methods*

*PHAR courses are only available to UC Pharmacy students in the 3 +1 pathway. Students in the Pharmacy 3+1 pathway at UC cannot take BIOL 333 and BIOL 420 as part of their concentration electives because these courses will be part of the first year of pharmacy school.

Students who intend to apply to Pharmacy school, Physician Assistant school, Medical School or any other professional school after completing a the Bachelor of Science in Biology degree or after completing the admissions requirements are encouraged to discuss with their advisors which courses fit best with the requirements for

admissions to these programs and take these courses among the electives for the concentration.

Environmental Biology

The Environmental Biology concentration is designed to provide students with a foundation in environmental sciences and population, organismal, and evolutionary biology. Students will explore regional organismal processes and the environments in which they thrive. Ecology, conservation and restoration of biodiversity are also a focus. Conservation and restoration field work and internships with local environmental agencies are some of the opportunities provided to students on this track. Course requirements for professional certification by several societies (e.g. Ecological Society of America) can be met within this concentration. Students with expertise in Environmental biology can work for local environmental agencies, Department of Environmental Protection, Department of Natural Resources, The National Park Service, US Forestry Service, Department of Commerce, the Environmental Protection Agency, and many others. Students in this track will also be prepared for graduate school in biological and environmental sciences.

Students in this concentration take four additional courses in the organismal or ecology areas. Courses in the concentration must be different than those taken as part of the major requirements.

- BIOL 128 Biology and Chemistry of Nat Eco in WV (with lab)
- BIOL 215 Botany
- BIOL 224 Zoology
- BIOL 3xx GIS for Biologists
- BIOL 3xx Soil Biology (with lab)
- BIOL 400 Ecology (with lab)
- BIOL 413 Appalachian Flora (with lab)
- BIOL 419 Micro Eco Health/Disease (with lab)
- BIOL 430 Limnology (with lab)

Data analytics

With a strong emphasis of biology at the molecular, cellular, organismal, and ecosystem levels, this concentration 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.

Students in this concentration must take BIOL 3xx and BIOL 3xx as their major requirements in addition to the courses below.

- DASC 100 Introduction to Scientific Programming
- DASC 101 Introduction to Data Science
- DASC 310 Machine Learning
- DASC 330 Data Modeling and Simulation
- MATH 240 Probability and Statistics

Other electives are offered and may be taken with the permission of the Program Director or Department Chair. Online or Web courses will require approval of the department chair.

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 Schedule for 4-year completion of BS BIOL with Concentration

FRESHMAN YEAR 35 credits			
FALL SEMESTER		SPRING SEMESTER	
UNIV 104X College Motivation and Success	3	UNIV 105 Foundations of Character and Leadership	3
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
BIOL 130 Biology for Majors & Lab (STEM Flex)	4	BIOL 2xx Cell Phys and Biochem	4
MATH 201 Calculus I or other based on placement (STEM Flex)	4	SPCH 103 Fundamental of Speech	3
CHEM 101 General Chemistry I & Lab (Flex Elective)	4	CHEM 102 General Chemistry II & Lab (Flex Elective)	4
TOTAL CREDITS	18	TOTAL CREDITS	17

SOPHOMORE YEAR 36 credits

FALL SEMESTER		SPRING SEMESTER	
Organismal course	4	Organismal course	4
CHEM 201 Organic Chemistry I & Lab	4	CHEM 202 Organic Chemistry II & Lab	4
NSCI 220 Statistics for Science & Research (or another math based on placement)	3	SSCI Flex elective 2	3
Organismal course	4	Ecology course	4
SSCI Flex elective 1	3	HUMN Flex elective 1	3
TOTAL CREDITS	18	TOTAL CREDITS	18

JUNIOR YEAR 30 credits

FALL SEMESTER		SPRING SEMESTER	
BIOL 331 Microbiology for majors & Lab	4	BIOL 332 Genetics & Lab	4
HUMN Flex elective 2	3	Molecular Biology course	4
PHYS 201 Introductory Physics I & Lab (Flex Elective)	4	PHYS 202 I Introductory Physics II & Lab (Flex elective)	4
Biomedical science course	4	Elective*	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR 26- 27 credits

FALL SEMESTER		SPRING SEMESTER	
Concentration courses	8	Concentration course	7-8
BIOL 496 Senior Capstone	1	Elective*	3
Elective*	3	Elective*	3
TOTAL CREDITS	12	TOTAL CREDITS	13-14

*Electives to stay as full-time student may be other coursework of interest or of requirement for professional/graduate school. It may also be fulfilled by math coursework assuming student does not place in MATH 201 upon entrance. Students may also consider a minor.

Courses in the concentration are chosen by the student in consultation with their advisor to meet total credit hour requirement for degree.

Additional Requirements

The University of Charleston comprehensive examination requirement for Biology majors is met through completion of the senior capstone. Biology Majors must also complete the Biology Assessment test in their freshman year. Biology majors must take the Biology Assessment test 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:

Course	Title	Credits
BIOL 301/301L	A&P I and lab	4 credits
BIOL 302/302L	A&P II and lab	4 credits
BIOL 331/331L	Microbiology for Majors and lab	4 credits
BIOL 332/332L	Genetics and lab	4 credits
BIOL 333/333L	Immunology and lab	4 credits
BIOL 400/400L	Ecology and lab	4 credits
BIOL 419/419L	Microbial Ecology of Health and Disease	4 credits
BIOL 422/422L	Embryology and lab	4 credits
BIOL 451/451L	Cell and Molecular Biology and Lab	4 credits
BIOL 453/453L	Virology and lab	4 credits

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.

Pathways for Admission to UC Physician Assistant Program (UCPAP)

Two admission pathways have been developed for the UC PAP. For more information, students should refer to the Biology student handbook and make an appointment with their advisor as soon as possible during their freshman year to discuss their choices

Fast Track

The PA Fast Track is only available to full time students who are currently enrolled at UC. Students can apply as early as their freshman year and can apply during any spring semester until they graduate. Students accepted into the PA fast track program matriculate in the master's degree of Physician Assistant Studies (PA School) after completion of their pre-requisites.

Direct Admission

Students also have the option of earning their Bachelor's Degree and applying to the UC Physician Assistant Program, or other PA Programs across the nation, through the Direct Admissions Pathway.

Pathways for Admission to UC School of Pharmacy (SOP)

Two admission pathways have been developed for the UC SOP. For more information, students should refer to the Biology student handbook and make an appointment with their advisor as soon as possible during their freshman year to discuss their choices

Fast Track Pathway

Students may choose to apply to pharmacy school after completing only those courses that are required for admission to the pharmacy school. Students can often finish these prerequisite courses in 2 or 3 years.

Traditional Admission Pathway

Students wishing to earn their undergraduate degree prior to applying to pharmacy school will be enrolled as a Biology, Chemistry, or Chemistry-Biology dual major. The student can then complete 4 years of pharmacy school to earn the Doctor of Pharmacy degree. Another option, the 3+1 degree pathway*, allows a student to combine 3 years of undergraduate coursework with an additional 1 year of pharmacy school coursework to earn a BS in Biology with an emphasis in Biomedical Sciences.

**Only available to students who complete their undergraduate and graduate work at UC.*

CHEMISTRY MAJOR

Dr. Mark Watson, 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, 7 credits in natural science and biology, and about 27 credits of courses to achieve the General Education requirements. In order to graduate, a student must complete at least 120 credits and 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		
CHEM 101	General Chemistry I and Lab	4 credits
CHEM 102	General Chemistry II and Lab	4 credits
CHEM 201	Organic Chemistry I and Lab	4 credits
CHEM 202	Organic Chemistry II and Lab	4 credits
CHEM 251	Quantitative Analysis and Lab	4 credits
CHEM 362	Instrumental Analysis and Lab	4 credits
CHEM XXX	300 or 400-Level Electives	6 credits
CHEM 410	Biochemistry	4 credits
CHEM 412	Physical Chemistry I	3 credits
CHEM 413	Physical Chemistry II	3 credits
CHEM 414	The Chemist's Toolbox	1 credit
CHEM 494	Proposal Writing in Chemistry	1 credit
CHEM 495	Research in Chemical Science	3 credits
CHEM 496	Seminar in Chemical Science	1 credit
REQUIRED MATHEMATICS COURSES – 16 CREDIT HOURS		
MATH 123	Pre-Calculus	4 credits
MATH 201	Calculus I	4 credits
MATH 202	Calculus II	4 credits
MATH 203	Calculus III	4 credits
REQUIRED PHYSICS COURSES – 8 CREDIT HOURS		
PHSC 201	Introductory Physics I and Lab	4 credits
PHSC 202	Introductory Physics II and Lab	4 credits
REQUIRED BIOLOGY COURSE – 4 CREDIT HOURS		
BIOL 130	Introductory Biology for Majors and Lab	4 credits
REQUIRED NATURAL SCIENCE COURSE – 3 CREDIT HOURS		
NSCI 220	Statistics in Science and Research	3 credits

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: elective courses to be determined after consultation with your academic advisor

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
CHEM 101 General Chemistry I and lab (STEM Flex)	4	CHEM 102 General Chemistry II and lab	4
BIOL 130 Intro BIOL and Lab	4	SPCH 103 Fundamentals of Speech	3
COMM 101 Writing I*	3	COMM 102 Writing II	3
MATH 123 Pre-Calculus (STEM Flex)	4	MATH 201 Calculus I	4
UNIV 104 College Motivation	3	UNIV 105 Foundations	3
TOTAL CREDITS	18	TOTAL CREDITS	17

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
CHEM 201 Organic Chemistry I and lab	4	CHEM 202 Organic Chemistry II and lab	4
CHEM 251 Quantitative Analysis and lab	4	CHEM 362 Instrumental Analysis and lab	4
MATH 202 Calculus II	4	MATH 203 Calculus III	4
PHSC 201 Introductory Physics I and lab (Elective Flex)	4	PHSC 202 Introductory Physics II and lab (Elective Flex)	4
TOTAL CREDITS	16	TOTAL CREDITS	16

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
CHEM 412 Physical Chemistry I	3	CHEM 413 Physical Chemistry II	3
NSCI 220 Statistics	3	SSCI Flex (Recommend HIST)	3
HUMN Flex (Recommend Art)	3	HUMN Flex (Recommend ENGL)	3
CHEM 411 Advanced Organic	3	Elective	3
SSCI Flex (Recommend PSYC)	3	Elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
CHEM 494 Proposal Writing in Chemistry	1	CHEM 420 Advanced Biochemistry	3
CHEM 410 Biochemistry	4	CHEM 496 Seminar in Chem. Science	1
CHEM 495 Research in Chem. Science	3	UNIV 459 or 460 University Capstone	3
Elective	3	Elective courses up to 6 hours	6
Elective	3	CHEM 414 The Chemist's Toolbox	1
TOTAL CREDITS	14	TOTAL CREDITS	14

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 may be possible to obtain a Chemistry degree in 3 years. Please contact your academic advisor for planning.

Additional Requirements

Students must meet all General Education Requirements 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.

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 CONCENTRATION

Dr. Mark Watson, Advisor

BS in Chemistry Data Analytics Concentration

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:

REQUIRED CHEMISTRY COURSES - 49 CREDIT HOURS		
CHEM 101	General Chemistry I and Lab	4 credits
CHEM 102	General Chemistry II and Lab	4 credits
CHEM 201	Organic Chemistry I and Lab	4 credits
CHEM 202	Organic Chemistry II and Lab	4 credits
CHEM 251	Quantitative Analysis and Lab	4 credits
CHEM 362	Instrumental Analysis and Lab	4 credits
CHEM XXX	300 or 400-Level Electives	6 credits
CHEM 340	Cheminformatics (NEW CLASS)	3 credits
CHEM 410	Biochemistry	4 credits
CHEM 412	Physical Chemistry I	3 credits
CHEM 413	Physical Chemistry II	3 credits
CHEM 414	The Chemist's Toolbox	1 credit
CHEM 494	Proposal Writing in Chemistry	1 credit
CHEM 495	Research in Chemical Science	3 credits
CHEM 496	Seminar in Chemical Science	1 credit

REQUIRED MATHEMATICS COURSES – 19 CREDIT HOURS

MATH 123	Pre-Calculus	4 credits
MATH 201	Calculus I	4 credits
MATH 202	Calculus II	4 credits
MATH 203	Calculus III	4 credits
MATH 230	Linear Algebra	3 credits
MATH 225	Discrete Mathematics (recommended, not required)	3 credits

REQUIRED PHYSICS COURSES – 8 CREDIT HOURS

PHSC 201	Introductory Physics I	4 credits
PHSC 202	Introductory Physics II	4 credits

REQUIRED DATA SCIENCE COURSES – 8 CREDIT HOURS

COSC 101	Introduction to Scientific Programming	4 credits
DASC 101	Introduction to Data Science	3 credits

REQUIRED STATISTICS COURSES – 10 CREDIT HOURS

NSCI 220	Statistics in Science and Research	3 credits
STAT 101	Introduction to Statistics	4 credits
STAT 120	Introduction to Probability for Data Science	3 credits

Typical Schedule for 4-year completion of BS CHEM Data Analytics Concentration**FRESHMAN YEAR**

FALL SEMESTER		SPRING SEMESTER	
CHEM 101 General Chemistry I and lab (STEM Flex)	4	CHEM 102 General Chemistry II and Lab	4
COMM 101 Writing I*	3	COMM 102 Writing II	3
		SPCH 103 Fundamental of Speech**	3
MATH 123 Pre-Calculus (STEM Flex)	4	MATH 201 Calculus I (Elective Flex)	4
UNIV 104 College Motivation	1	UNIV 105 The University Experience	2

DASC 100 Introduction to Scientific Programming (Elective Flex)	3	DASC 101 Introduction to Data Science	3
TOTAL CREDITS	17	TOTAL CREDITS	19

SOPHOMORE YEAR

FALL SEMESTER		SPRING SEMESTER	
CHEM 201 Organic Chemistry I and Lab	4	CHEM 202 Organic Chemistry II and Lab	4
MATH 202 Calculus II	4	MATH 203 Calculus III	4
PHSC 201 Introductory Physics I and Lab	4	PHSC 202 Introductory Physics II and Lab	4
STAT 101 Introduction to Statistics	4	STAT 120 Introduction to Probability	3
TOTAL CREDITS	16	TOTAL CREDITS	15

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
CHEM 412 Physical Chemistry I	3	CHEM 413 Physical Chemistry II	3
SSCI Flex (Recommend PSYC)	3	SSCI Flex (Recommend HIST)	3
NSCI 220 Statistics	3	HUMN Flex (Recommend ENGL)	3
CHEM 411 Advanced Organic	3	Elective	3
CHEM 251 Quantitative Analysis	4	Elective	3
TOTAL CREDITS	16	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
CHEM 494 Proposal Writing in Chem.	1		
CHEM 495 Research Capstone	3	CHEM 496 Seminar	1
CHEM 410 Biochemistry	4	CHEM 420 Advanced Biochemistry	3
		MATH 225 Discrete Math (optional)	3
HUMN Flex (Recommend Art)	3	Elective	3
Elective	3	CHEM 414 The Chemist's Toolbox	1
TOTAL CREDITS	14	TOTAL CREDITS	14

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

- 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, 20 credits of required mathematics and physics courses, 3 credits in the Natural Science Sequence, and 40 credits of General Education. 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		
CHEM 101	General Chemistry I and Lab	4 credits
CHEM 102	General Chemistry II and Lab	4 credits
CHEM 201	Organic Chemistry I and Lab	4 credits
CHEM 202	Organic Chemistry II and Lab	4 credits
CHEM 251	Quantitative Analysis and Lab	4 credits
CHEM 362	Instrumental Analysis and Lab	4 credits
CHEM 410	Biochemistry	4 credits
CHEM 411 OR CHEM 420	Advanced Organic Chemistry Advanced Biochemistry	3 credits
CHEM 412	Physical Chemistry I	3 credits
CHEM 414	The Chemist's Tool Box	1 credit
CHEM 494	Proposal Writing in Chemistry	1 credit
CHEM 495	Research in Chemical Science	3 credits
CHEM 496	Seminar in Chemical Science	1 credit

REQUIRED BIOLOGY COURSES – 30 to 32 CREDIT HOURS		
BIOL 130	Introductory Biology for Majors and Lab	4 credits
BIOL 215 OR BIOL 224	General Botany and Lab or General Zoology and Lab	4 credits
BIOL 301	Human Anatomy and Physiology I and Lab	4 credits
BIOL 302	Human Anatomy and Physiology II and Lab	4 credits
BIOL 331	Microbiology for Majors and Lab	4 credits
BIOL 332	Genetics and Lab	4 credits
BIOL XXX	300 or 400-level Electives and Labs	6-8 credits

REQUIRED MATHEMATICS COURSES – 12 CREDIT HOURS		
MATH 123	Pre-Calculus	4 credits
MATH 201	Calculus I	4 credits
MATH 202	Calculus II	4 credits

REQUIRED PHYSICS COURSES – 8 CREDIT HOURS		
PHSC 201	Introductory Physics I and Lab	4 credits
PHSC 202	Introductory Physics II and Lab	4 credits

REQUIRED NATURAL SCIENCE COURSE – 3 CREDIT HOURS		
NSCI 220	Statistics in Science and Research	3 credits

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:

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
CHEM 101 General Chemistry I and Lab (STEM Flex)	4	CHEM 102 General Chemistry II and Lab	4
		SPCH 103 Fundamentals of Speech	3
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
BIOL 130 Introductory Biology Majors and Lab (STEM Flex)	4		
MATH 123 Pre-Calculus (Flex elective)	4	MATH 201 Calculus I (Flex elective)	4
UNIV 104 College Motivation	3	UNIV 105 Foundations	3
TOTAL CREDITS	18	TOTAL CREDITS	17

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
CHEM 201 Organic Chemistry I and Lab	4	CHEM 202 Organic Chemistry II and Lab	4
BIOL 301 A&P I and Lab	4	BIOL 302 A&P II and Lab	4
MATH 202 Calculus II	4	SSCI Flex (Recommend HIST)	3
		HUMN Flex (Recommend Art)	3
PHSC 201 Introductory Physics I and Lab	4	PHSC 202 Introductory Physics II and Lab	4
TOTAL CREDITS	16	TOTAL CREDITS	18
JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
CHEM 251 Quantitative Analysis and Lab	4	CHEM 362 Instrumental Analysis and Lab	4
BIOL 331 Microbiology and Lab	4	BIOL 332 Genetics and Lab	4
NSCI 220 Statistics	3	HUMN Flex (Recommend ENGL)	3
CHEM 420 Biochemistry	4	BIOL XXX Upper level class and Lab	4
SSCI Flex (Recommend PSYC)	3	BIOL 215 or 224 and Lab	4
TOTAL CREDITS	18	TOTAL CREDITS	19
SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
CHEM 412 Physical Chemistry I	3	CHEM 414 Chemist's Toolbox	1
CHEM 494 Proposal Writing in Chemistry	1	CHEM 411 Advanced Organic	3
BIOL XXX Upper Level class	4	CHEM 496 Seminar in Chem. Science	1
CHEM 495 Research in Chem. Science	3	UNIV 459 or 460 University Capstone	3
HUMN Flex (Recommend ENGL)	3	BIOL XXX Upper level class and Lab	4
Elective	3	Elective	3
TOTAL CREDITS	17	TOTAL CREDITS	15

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. Watson for a schedule.

Additional Requirements

Students must meet all General Education 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.

DEPARTMENT OF SOCIAL SCIENCES

Dr. Michael Bayly, Chair

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.

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

Majors in the Department

[HISTORY/POLITICAL SCIENCE](#)

[MULTIDISCIPLINARY STUDIES – Individualized](#)

[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 SOCIAL SCIENCES

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 General Education 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 University of Charleston general curriculum requirements. 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

History-Political Science Requirements - 45-54 Credit Hours		
HIST 211	World Cultures I	3 credits
HIST 212	World Cultures II	3 credits
HIST 251	Foundations of the American Republic	3 credits
HIST 252	Contemporary America	3 credits
HIST 354	Civil War and Reconstruction	3 credits
HIST 360	History of War	3 credits
HIST 371	History of the Middle East	3 credits
POLS 101	American National Government	3 credits
POLS 102	State and Local Government	3 credits
POLS 200	Foundations of Public Policy	3 credits
POLS 210 OR POLS 230	Comparative Government Introduction to Political Philosophy	3 credits
POLS 300	Political Science Research Methods	3 credits
POLS 400	Senior Thesis	3 credits
POLS 492	Internship	3-11 credits
MATH 120	Intermediate Algebra (or higher MATH)	3 credits
GEOG 303	World Geography	3 credits

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 Available Courses		
HIST 211	World Cultures I	3 credits
HIST 212	World Cultures II	3 credits
HIST 251	Foundations of the American Republic	3 credits
HIST 252	Contemporary America	3 credits
HIST 354	Civil War and Reconstruction	3 credits
HIST 360	History of War	3 credits
HIST 371	History of the Middle East	3 credits
GEOG 303	World Geography	3 credits

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		SPRING SEMESTER	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
HIST 251 Found. of American Republic (Social Science Flex)	3	SPCH 103 Oral Communication Fundamentals*	3
Humanities Flex (Recommend HUMN 110 Unheard Voices)	3	HIST 252 Contemporary America (Elective Flex)	3
MATH 120 Intermediate Algebra (STEM Flex)	3	STEM Flex (Recommend NSCI 117 Why Science Matters)	3
POLS 101 American National Govt. (Social Science Flex)	3	POLS 102 State and Local Government (Elective Flex)	3
UNIV 104 College Motivation and Success	3	UNIV 105 Foundations of Character and Leadership	3
TOTAL CREDITS	18	TOTAL CREDITS	18

*This is not a separate course. Credit is earned during UNIV 104 & 105

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
HIST 211 World Cultures I	3	HIST 212 World Cultures II	3
POLS 200 Foundations of Public Policy	3	POLS 210 Comparative Government	3
HUMN Flex Course (Recommend Literature)	3	POLS Concentration or 2 nd Minor	3
Minor	3	Minor	3
Elective	3	Elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15
JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
POLS 300 Pol. Sci. Research Methods	3	HIST 354 Civil War and Reconstruction	3
POLS Concentration or 2 nd Minor	3	GEOG 303 World Geography	3
HIST 360 History of War	3	Minor	3
POLS Concentration or 2 nd Minor	3	Minor	3
Minor	3	Upper level elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
Upper level elective	3	POLS 400 Senior Thesis	3
POLS 492 Internship	3	HIST 371 History of the Middle East	3
POLS Concentration or 2 nd Minor	3	POLS Concentration or 2 nd Minor	3
POLS Concentration or 2 nd Minor	3	Minor	3
Elective	3		
TOTAL CREDITS	15	TOTAL CREDITS	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			
FALL SEMESTER		SPRING SEMESTER	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
HIST 251 Found. of American Republic (Social Science Flex)	3	SPCH 103 Oral Communication Fundamentals*	3
Humanities Flex (Recommend HUMN 110 Unheard Voices)	3	HIST 252 Contemporary America (Social Science Flex)	3
MATH 120 Intermediate Algebra (STEM Flex)	3	STEM Flex (Recommend NSCI 117 Why Science Matters)	3
POLS 101 American National Govt. (Social Science Flex)	3	POLS 102 State and Local Government (Social Science Flex)	3
UNIV 104 College Motivation and Success	3	UNIV 105 Foundations of Character and Leadership	3
TOTAL CREDITS	18	TOTAL CREDITS	18

*This is not a separate course. Credit is earned during UNIV 104 & 105

SECOND YEAR

FALL SEMESTER		SPRING SEMESTER	
HIST 211 World Cultures I	3	HIST 212 World Cultures II	3
HIST 360 History of War	3	HIST 354 Civil War and Reconstruction	3
POLS 200 Foundations of Public Policy	3	POLS 210 Comparative Government	3
HUMN Flex Course (Recommend Literature)	3	HIST 354 Civil War and Reconstruction	3
Minor	3	GEOG 303 World Geography	4
Minor	3	Minor	3
TOTAL CREDITS	18	TOTAL CREDITS	18

SUMMER BETWEEN SECOND AND THIRD YEARS

POLS 490 E.A.G.L.E. Internship (12 hours)

THIRD YEAR

FALL SEMESTER		SPRING SEMESTER	
POLS 300 Political Science Research Methods	3	POLS 400 Senior Thesis	3
HIST 360 History of War	3	HIST 371 History of the Middle East	3
Upper level elective	3	Concentration specific course	3
Minor	3	Minor	4
Elective	3	Minor	3
Elective	3	Elective	3
TOTAL CREDITS	18	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 University of Charleston general curriculum requirements. These additional hours may be utilized to earn a second major, if the student so desires.

Bachelor of Arts in Political Science

CORE REQUIREMENTS - 42 CREDIT HOURS

HIST 212	World Cultures II: 17 th Century to Present	3 credits
HIST 251	Foundations of the American Republic	3 credits
HIST 252	Contemporary America	3 credits
MATH 120	Intermediate Algebra (or higher math)	3 credits
POLS 101	American National Government	3 credits
POLS 102	State and Local Government	3 credits
POLS 210	Comparative Government	3 credits
POLS 200	Foundations of Public Policy	3 credits
POLS 300	Political Science Research Methods	3 credits
POLS 400	Senior Thesis	3 credits
POLS 490	E.A.G.L.E. Internship	12 credits

Pre-Law Concentration

PRE-LAW CONCENTRATION – 18 CREDIT HOURS

POLS 230	Introduction to Political Philosophy	3 credits
POLS 260	Judicial Branch Politics	3 credits
POLS 280	Debating Political Issues	3 credits
POLS 314	Constitutional Law I	3 credits
POLS 316	Constitutional Law II	3 credits
POLS Elective	200 or 300-Level Political Science Elective	3 credits

Public Policy Concentration

PUBLIC POLICY CONCENTRATION – 18 CREDIT HOURS

POLS 240	Legislative Branch Politics	3 credits
POLS 250	Executive Branch Politics	3 credits
POLS 380	Interest Group Politics	3 credits
POLS 390	Ethical Dilemmas in Policy Making	3 credits
POLS 314	Constitutional Law I	3 credits
POLS Elective	200 or 300-Level Political Science Elective	3 credits

Criminal Justice Concentration

CRIMINAL JUSTICE CONCENTRATION - 18 CREDIT HOURS		
CRJS 101	Introduction to Criminal Justice	3 credits
CRJS 242	Introduction to Law Enforcement	3 credits
CRJS 260	Terrorism and Homeland Security	3 credits
CRJS 331 OR POLS 314	Criminal Procedure Constitutional Law I	3 credits
CRJS 356	Criminal Law	3 credits
POLS 260	Judicial Branch Politics	3 credits

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.

POLITICAL SCIENCE MINOR - 18 CREDIT HOURS		
POLS 101	American National Government	3 credits
POLS 200	Foundations of Public Policy	3 credits
POLS 210 OR POLS 230	Comparative Government Introduction to Political Philosophy	3 credits
POLS 240	Legislative Branch Politics	3 credits
POLS 250	Executive Branch Politics	3 credits
POLS 260	Judicial Branch Politics	3 credits
Total		18 credits

CRIMINAL JUSTICE MINOR

The Criminal Justice Minor in Political Science requires the student to complete 18 credits from Political Science and Criminal Justice.

CRIMINAL JUSTICE MINOR - 18 CREDIT HOURS		
CRJS 101	Introduction to Criminal Justice	3 credits
CRJS 242	Introduction to Law Enforcement	3 credits
CRJS 260	Terrorism and Homeland Security	3 credits
CRJS 331 OR POLS 314	Criminal Procedure OR Constitutional Law I	3 credits
CRJS 356	Criminal Law	3 credits
POLS 260	Judicial Branch Politics	3 credits
Total		18 credits

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		SPRING SEMESTER	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
HIST 251 Found. of American Republic (Social Science Flex)	3	SPCH 103 Oral Comm. Fundamentals*	3
Humanities Flex (Recommend HUMN 110 Unheard Voices)	3	HIST 252 Contemporary America (Elective Flex)	3
MATH 120 Intermediate Algebra (STEM Flex)	3	STEM Flex (Recommend NSCI 117 Why Science Matters)	3
POLS 101 American National Govt. (Social Science Flex)	3	POLS 102 State and Local Government (Elective Flex)	3
UNIV 104 College Motivation and Success	3	UNIV 105 Foundations of Character and Leadership	3
TOTAL CREDITS	18	TOTAL CREDITS	18

*This is not a separate course. Credit is earned during UNIV 104 & 105

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
HIST 211 World Cultures I	3	HIST 212 World Cultures II	3
POLS 200 Foundations of Public Policy	3	POLS 210 Comparative Government	3
HUMN Flex Course (Recommend Literature)	3	Concentration specific course	3
Minor	3	Minor	3
Elective	3	Elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
POLS 300 Political Science Research Methods	3	Concentration specific course	3
POLS 314 Constitutional Law I	3	Concentration specific course	3
HIST 360 History of War	3	Minor	3
Concentration specific course	3	Minor	3
Minor	3	Upper level elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
Elective	3	POLS 400 Senior Thesis	3
E.A.G.L.E. Internship	12	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

FIRST YEAR			
FALL SEMESTER		SPRING SEMESTER	
COMM 101 Freshman Writing I*	3	COMM 102 Freshman Writing II*	3
HIST 251 Found. of American Republic (Social Science Flex)	3	SPCH 103 Oral Comm. Fundamentals*	3
Humanities Flex (Recommend HUMN 110 Unheard Voices)	3	HIST 252 Contemporary America (Social Science Flex)	3

MATH 120 Intermediate Algebra (STEM Flex)	3	STEM Flex (Recommend NSCI 117 Why Science Matters)	4
POLS 101 American National Govt. (Social Science Flex)	3	POLS 102 State and Local Government (Social Science Flex)	3
UNIV 104 College Motivation and Success	3	UNIV 105 Foundations of Character and Leadership	3
TOTAL CREDITS	18	TOTAL CREDITS	18

* This is not a separate course. Credit is earned during UNIV 104 & 105.

SECOND YEAR			
FALL SEMESTER		SPRING SEMESTER	
HIST 211 World Cultures I	3	HIST 212 World Cultures II	3
POLS 200 Foundations of Public Policy	3	POLS 210 Comparative Government	3
HUMN Flex Course (Recommend Literature)	3	Concentration specific course	3
Concentration specific course	3	Concentration specific course	4
Minor	3	Minor	3
Elective	3	Minor	3
TOTAL CREDITS	18	TOTAL CREDITS	18

SUMMER BETWEEN SECOND AND THIRD YEARS	
POLS 490 E.A.G.L.E. INTERNSHIP	12 CREDITS

THIRD YEAR			
FALL SEMESTER		SPRING SEMESTER	
POLS 300 Political Science Research Methods	3	POLS 400 Senior Thesis	3
POLS 314 Constitutional Law I	3	Concentration specific course	3
HIST 360 History of War	3	Concentration specific course	3
UNIV 459 or 460 University Capstone	3	Minor	4
Concentration specific course	3	Minor	3
Minor	3	Upper level elective	3
TOTAL CREDITS	18	TOTAL CREDITS	18

PSYCHOLOGY MAJOR

Annie Cardell, Ph.D., Program Director

According to the Bureau of Labor Statistics, the outlook for careers as a psychologist is favorable. As of 2018, psychologists had a median pay of \$79,010. The predicted job growth in the field between 2018 and 2028 ranges from 12% to 15%, depending on the subfield. This is nearly three times the average projected growth of 5% for all fields. Subfields such as clinical psychology, counseling, rehabilitation psychology, and school psychology are expected to have particularly high growth. A graduate degree is required for certain jobs in the field. Some of the career opportunities for psychologists include work in the following fields:

- Counseling and clinical psychology
- Behavior management
- Forensic psychology
- Basic scientific research
- Applied research and consulting
- Industrial/organizational psychology
- School psychology
- Animal training
- Advertising
- Corrections
- Developmental psychology
- Neuroscience
- Human resources

Program Description

This unique program, offered in two-degree tracks, helps students to better understand human behavior and the processes of organisms, and to learn to appreciate psychology as a discipline. Students will acquire the knowledge and skills necessary for advanced study or work within the discipline. The degree tracks are tailored to meet students' future career plans, whether that includes immediate employment or graduate studies.

Program Outcomes

At the conclusion of this course of study, the graduate will:

- Demonstrate the ability to understand, use, and apply the scientific method.

- Demonstrate mastery of the core fields, paradigms, and theories of psychology.
- 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.
- 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.
- 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. Students following the BA track will take 30-33 credits of Psychology courses and 12 credits of Research Methods core courses. Students following the BS track will take 27-30 credits of Psychology courses and 15 credits of Research Methods core courses. Additional distinctions between the two tracks are discussed below. 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

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. The BS track is offered at the Charleston campus.

B.S. Track Core Courses in Psychology		
Course	Title	Credits
PSYC 101	Introduction to Psychology	3
PSYC 212	Lifespan Development	3
PSYC 342	Social Psychology	3
PSYC 352 or 360	Cognitive or Learning and Memory	3
PSYC 351, 353, or 358	Biological Psychology Elective*	6-12*
PSYC 351, 353, 354, or 361	Ethics Elective*	
PSYC 355, 359, or 361	Oral Communication Elective*	
PSYC 357 or 498 or SOCI 221	Engagement Elective or 30 hours documented community service	
PSYC 300+ or SOCI 322	Free Electives	
<i>Total Psychology Core</i>		<i>24-30</i>

*Some courses may fulfill more than one requirement

B.S. Track Core Courses in Research Methods		
Course	Title	Credits
SSCI 203	Methods for Behavioral Sciences	3
PSYC 315	Psychological Statistics	3
SSCI 320	Computer Assisted Research	3
PSYC 451	Experimental Psychology I	3
PSYC 452	Thesis	3
<i>Total Research Methods Core</i>		<i>15</i>

B.S. Track Math and Science Requirements		
Course	Title	Credits
MATH 120 or higher	Intermediate Algebra (or higher)	3
BIOL 130 or CHEM 100 or	Biology (with lab) or Chemistry (with lab)	3
BIOL 130, BIOL 215+, CHEM 100+, MATH 123+	Choose two courses from among: Biology (with lab), Chemistry (with lab), and/or Math courses	3
Total Math and Science Requirements		15-16

Psychology BS Program

Typical Four-Year Student Schedule

First Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
UNIV 104 Orientation to University	3	UNIV 105 University Experience	3
COMM 101 Freshman Writing I	3	SPCH 103 Oral Communication (embedded in UNIV 105)	3
PSYC 101 Introduction to Psychology (SS Flex)	3	COMM 102 Freshman Writing II	3
MATH 120 Intermediate Algebra or higher (STEM Flex)	3	PSYC 212 Lifespan Development (SS Flex)	3
BIOL 130 + BIOL 130L Biology for Majors with Lab (STEM Flex)	4	Humanities Flex Course	3
Total Credits:	16	Total Credits:	15

Second Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
SSCI 203 Methods for Behavioral Sciences	3	PSYC 315 Psychological Statistics	3
CHEM 101 + CHEM 101L General Chemistry I with lab, BIOL-215 or higher, or MATH-123 Precalculus or higher (Elective Flex)	4	CHEM 102 + CHEM 102L General Chemistry II with Lab, BIOL-215 or higher, or MATH-123 Precalculus or higher (Elective Flex)	3
PSYC 352 Cognitive Psychology	3	PSYC 351 Human Sexuality or PSYC 353 Physiological Psychology	4
Free Elective or Course for Minor	3	Humanities Flex Course	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Total Credits:	16	Total Credits:	16

Third Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
SSCI 320 Computer Assisted Research	3	PSYC 342 Social Psychology	3
PSYC 360 Learning and Memory	3	PSYC 361 Clinical Psychology or PSYC 354 Psychology and the Law	3
PSYC 362 Abnormal Psychology	3	PSYC 358 Health Psychology	3
SOCI 221 Criminology and Juvenile Delinquency	3	Free Elective or Course for Minor	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Total Credits:	15	Total Credits:	15

Fourth Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
PSYC 451 Experimental Psychology I	3	PSYC 452 Thesis	3
SOCI 322 Marriage and Family	3	PSYC 355 Advanced Social Psychology	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Free Elective or Course for Minor	3		
Total Credits:	15	Total Credits:	12

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. The BA track is offered at both the Charleston and Online campuses.

B.A. Track Core Courses in Psychology		
Course	Title	Credits
PSYC 101	Introduction to Psychology	3
PSYC 212	Lifespan Development	3
PSYC 342	Social Psychology	3
PSYC 352 or 360	Cognitive or Learning and Memory	3
PSYC 351, 353, or 358	Biological Psychology Elective*	6-12*

PSYC 351, 353, 354, or 361	Ethics Elective*	
PSYC 355, 359, or 361	Oral Communication Elective*	
PSYC 357 or 498 or SOCI 221	Engagement Elective or 30 hours documented community service	
PSYC 300+ or SOCI 322	Free Electives	9
Total Psychology Core		27-33

*Some courses may fulfill more than one requirement

B.A. Track Core Courses in Research Methods		
Course	Title	Credits
SSCI 203	Methods for Behavioral Sciences	3
PSYC 315	Psychological Statistics	3
SSCI 320	Computer Assisted Research	3
PSYC 441	Psychology BA Capstone	3
Total Research Methods Core		12

B.A. Track Math and Diversity Requirements		
Course	Title	Credits
MATH 120 or higher	Intermediate Algebra (or higher)	3-4
HUMN 110	Unheard Voices	3
	Choose two diversity electives from either: SPAN 101, SPAN 102, SPAN 201, FREN 101, FREN 102, FREN 201 <i>or</i> EDUC-204, ENGL-231, ENGL-307, ENGL-309, ENGL-320, GEOG-303, HIST-212, HIST-360, HIST-371, HIST-373, HUMN-201, MUSC-212, POLS-210, SOWK-350, SSCI-104, SSCI-111, SSCI-114, SSCI-310	6
Total Math and Diversity Requirements		12-13

Typical Four-Year Student Schedule

First Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
UNIV 104 Orientation to University OR UNIV 204 College Success and Leadership	3	UNIV 105 University Experience	3
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
PSYC 101 Introduction to Psychology (SS Flex)	3	SPCH 103 Oral Communication (embedded in UNIV 105 unless taken online)	3
MATH 120 Intermediate Algebra or higher (STEM Flex)	3	PSYC 212 Lifespan Development (SS Flex)	3
HUMN 110 Unheard Voices (Humanities Flex)	3	Humanities Flex Course	3
Total Credits:	15	Total Credits:	15

Second Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
SSCI 203 Methods for Behavioral Sciences	3	PSYC 315 Psychological Statistics	3
PSYC 360 Learning and Memory	3	Diversity Elective	3
PSYC 362 Abnormal Psychology	3	PSYC 358 Health Psychology	3
Elective Flex Course	3	STEM Flex Course	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Total Credits:	15	Total Credits:	15

Third Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
SSCI 320 Computer Assisted Research	3	Diversity Elective	3
PSYC 352 Cognitive Psychology	3	PSYC 359 Advanced Developmental Psychology	3
PSYC 342 Social Psychology	3	PSYC 353 Physiological Psychology	3
Elective Flex Course	3	Free Elective or Course for Minor	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Total Credits:	15	Total Credits:	15

Fourth Year Schedule

<u>Fall Semester</u>		<u>Spring Semester</u>	
Course	Credit	Course	Credit
PSYC 357 Psychological Aspects of Aging	3	PSYC 441 Psychology BA Capstone	3
PSYC 362 Abnormal Psychology	3	PSYC 361 Clinical Psychology	3
Free Elective or Course for Minor	3	PSYC 343 Personality	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Free Elective or Course for Minor	3	Free Elective or Course for Minor	3
Total Credits:	15	Total Credits:	15

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

To satisfy graduation requirements, students must take and pass a series of 6 comprehensive exams (or their equivalent, as determined by the Psychology Program Director).

PSYCHOLOGY MINOR

The minor in Psychology requires that the student complete 18 credits of courses in Psychology.

Psychology Minor Must Include:		
Course	Title	Credits
PSYC 101	Introduction to Psychology	3
PSYC 212	Lifespan Development	3
PSYC 3XX	Electives*	12
	Total Credits	18

*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 andRegional Geography	3 credits
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)

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 CONCENTRATION](#): First Responder / Criminal Justice (OLFR)

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 four 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 OF ADMINISTRATION (B.S.B.A.)

Dr. Scott Bellamy, Department 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 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 core outcomes and the major 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 core plus additional credits within their major. The 45-credit core for the B.S.B.A. degree is as follows:

B.S. in Business Administration – Core Requirements for All Majors		
Course	Title	Credits
ACCT 201	Principles of Accounting I	3
ACCT 202	Principles of Accounting II	3
ECON 201	Principles of Microeconomics	3
ECON 202	Principles of Macroeconomics	3
BUSI 215	Information Systems	3
BUSI 231	Business Law I	3
BUSI 241	Business Careers & Communication	3
BUSI 316	Quantitative Methods for Business & Economics	3
BUSI 317	Business Statistics	3
BUSI 360	Business Ethics	3
BUSI 407	Global Dimensions of Business	3
BUSI 450	Business Strategy	3
FINA 312	Business Finance	3
MGMT 311	Principles of Management	3
MRKT 321	Principles of Marketing	3
B.S.B.A. Core:		45

Additional Requirements

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. B.S.B.A. degree program graduates must take and pass the Peregrine Major Field Test for Business in the last semester of the senior year with C or above in Business Strategy (BUSI 450).

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:

Minor in Business Administration		
Course	Title	Credits
BUSI 151*	Introduction to Business	3
ACCT 201	Principles of Accounting I	3
ACCT 202	Principles of Accounting II	3
ECON 201	Principles of Microeconomics	3
FINA 312	Business Finance	3
MGMT 311	Principles of Management	3
MRKT 321	Principles of Marketing	3
	Total for Minor:	21

*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 DEGREE 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, 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:

Business Courses Required for the A.S. Degree in Business Administration	
Course	Credits
BUSI 151 Introduction to Business	3
ACCT 201 Principles of Accounting I	3
ACCT 202 Principles of Accounting II	3
ECON 201 Principles of Microeconomics	3
FINA 312 Business Finance	3
MGMT 311 Principles of Management	3
MRKT 321 Principles of Marketing	3
Electives in ACCT, BUSI, FINA, MGMT, MRKT, or SPBU	9
Business Total	30

Note: Candidates must complete 2 experiences in Humanities Electives, 2 STEM electives (one in Natural Science), 2 experience in Social Science Electives, and 2 experiences from FLEX electives. 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

FALL SEMESTER - FRESHMAN			
Course			Credits
COMM 101 Freshman Writing I			3
BUSI 151 Introduction to Business			3
HUMN 1XX Humanities			3
MATH 120 Intermediate Algebra <i>or higher</i>			3
UNIV 104 College Motivation & Success			3
ACCT 201 Principles of Accounting I			3
Semester Total			18
SPRING SEMESTER – FRESHMAN			
COMM	102	Freshman Writing II (portfolio)	3
SPCH	103	Oral Communication Fundamentals (portfolio)	3
NSCI	117	Why Science Matters or equivalent	4
UNIV	105	Foundations of Character & Leadership	3
ACCT	202	Principles of Accounting II	3
Semester Total			16

Transfer students and online students – register for UNIV 204 and SPCH 103 (if they do not have transfer credit for foundational speaking/speech/oral communication).

FALL SEMESTER – SOPHOMORE	
ECON 201 Principles of Microeconomics	3
MGMT 311 Principles of Management	3
Business Elective	3
Business Elective	3
GE Elective	3
Semester Total	15
SPRING SEMESTER – SOPHOMORE	
MRKT 321 Principles of Marketing	3
FINA 312 Business Finance	3
Business Elective	3
Business Elective	3
Business Elective	3
Semester Total	15
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.B.A. 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. The Accounting Program prepares students for accounting positions in public accounting, industry, not for profits, and government. Students choosing public accounting can work in auditing, tax preparation and planning, forensic accounting, or management advisory services in a professional services firm, while those in industry will work for business organizations as accountants, financial analysts, cost accountants, budget analysts, or internal auditors.

Per the Bureau of Labor Statistics, employment for accountants and auditors will grow approximately six percent from 2018 through 2028. As the economy grows, business organizations will need more accountants to prepare and analyze financial information. , 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 at the website of the](#)

[National Association of State Boards of Accountancy](#). Students should consult with their academic advisors.

Professionalism program activities, including workshops and speakers series, are held on the Charleston campus.

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 a 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 general education requirements 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.

Accounting Major Courses		
Course	Title	Credits
ACCT 301	Intermediate Accounting I	3
ACCT 302	Intermediate Accounting II	3
ACCT 322	Cost Accounting	3
ACCT 360	Accounting Information Systems	3
ACCT 412	Advanced Accounting	3
ACCT 448	Auditing	3
Select one (1) from the following:		
ACCT 423	Federal Taxes - Individual	
or		3
ACCT 424	Federal Taxes - Business	
Total:		21

CPA Track Courses		
Course	Title	Credits
ACCT 403	Intermediate Accounting III	3
ACCT 462	Accounting Ethics	3
Select one (1) from the following:		
ACCT 423	Federal Taxes - Individual	
or		3
ACCT 424	Federal Taxes - Business	
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.

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 planning to complete the 150-credit hour requirements for the CPA examination in a different way.

Accounting Program Typical Four-Year Student Schedule

First Year Schedule++

Fall Semester		Spring Semester	
UNIV 104 Orientation to University*	3	UNIV 105 Foundations of Character & Leadership*	3
Stem Flex Course	3	Humanities Flex Course	3
COMM 101 Freshmen Writing I	3	COMM 102 Freshmen Writing II	3
ECON 201 Principles of Microeconomics	3	ECON 202 Principles of Macroeconomics	3
MATH 121 College Algebra (Stem Flex)**	3	ACCT 202 Principles of Accounting II	3
ACCT 201 Principles of Accounting I	3	SPCH 103 Oral Communication Skills*	3
Total:	18	Total:	18

Second Year Schedule++

Fall Semester		Spring Semester	
ACCT 301 Intermediate Accounting I	3	ACCT 302 Intermediate Accounting II	3
BUSI 241 Business Communication	3	FINA 312 Business Finance	3
BUSI 231 Business Law I	3	MRKT 321 Principles of Marketing	3
MGMT 311 Principles of Management	3	ENGL Literature (HUMN Flex)	3
BUSI 215 Business Information Systems	3	Social Science Flex Course	3
Total:	15	Total:	15

Third Year Schedule++

Fall Semester		Spring Semester	
+ACCT 403 Intermediate Accounting III	3	ACCT 322 Cost Accounting	3
ACCT 423 Federal Income Taxes-Individual	3	ACCT 360 Accounting Information Systems	3
BUSI 316 Quantitative Methods for Business & Economics	3	BUSI 317 Business Statistics	3
BUSI 360 Business Ethics	3	Elective Flex Course	3
Elective Flex Course	3	Elective Course	3
Total:	15	Total:	15

Fourth Year Schedule++

Fall Semester		Spring Semester	
ACCT 448 Advanced Accounting	3	ACCT 448 Auditing	3
+ACCT 424 Federal Income Taxes-Business	3	+ACCT 462 Accounting Ethics	3
BUSI 407 Global Dimensions of Business	3	BUSI 450 Business Strategy	3
Elective Course	3	Elective Course	3
Elective Course	3	Elective Course	3
Total:	15	Total:	15

* Transfer and online students substitute UNIV 204, for UNIV 104 and 105

**Prerequisite: C or better in MATH 120 or Math ACT score of 21 or higher (Math SAT of 530 or higher).

***SPCH 103 is embedded in UNIV 105

+ACCT 403, 424, and 462 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. Jim Samuel, Program Directors

Mission Statement

The mission of the Business Analytics program is to impart knowledge to and develop skills in students, that are needed to collect, organize, analyze and make sense of diverse modern-day data from business domain perspectives, and communicate effectively.

Furthermore, the Business Analytics program will aim to motivate students to success in the Business Analytics domain, which is one of the most attractive domains, with a very high industry demand, providing well above average salaries, excellent future employment opportunities and intellectually rewarding work.

Program Description

Our undergraduate Business Analytics major is a recently designed and updated program which has all the important content, tools, processes and intellectual resources necessary to prepare students for a successful Business Analytics career. The job market for business analytics candidates with the right skills is expected to remain lucrative for the next 10 to 20 years and so Business Analytics is an excellent direction for highly motivated students to move in. The program will help students develop quantitative data analysis skills, and corresponding communication skills necessary for solving real-world business problems and communicating solutions. This is an interdisciplinary major that utilizes courses from computer science and data analytics programs.

The Business Analytics major is offered as an in-seat residential program on the Charleston campus*. The program integrates professional exposure and an internship experience to better prepare students with the skills desired by employers. Business Analytics majors will take a 45-credit business core and also have an opportunity to double major in complimentary areas of business or major/minor in fields outside the business area. The program covers critical topics such as Data Visualization, Big Data Analytics and Machine Learning, using industry relevant tools. Needless to say, the program can be expected to be rigorous and intellectually stimulating!

Business Analytics Major Outcomes

The graduate will:

1. Collect, organize, analyze and make sense of diverse modern-day data, using appropriate technological tools, and generate business insights.
2. Communicate business analytics insights effectively.

Courses

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, 24 credits of major courses, and 51 credits of general education and other elective credits.

Business Analytics – Required Courses in Major		
Course	Title	Credits
BUSI 10X	Introduction to Business Analytics	3
DASC 100	Introduction to Scientific Programming	3
DASC 250	Data Visualization	3
BUSI 31X	Big Data Analytics	3
BUSI 32X	Predictive Modelling for Business Analytics	3
BUSI 47X	Machine Learning	3
BUSI 41X	Business Analytics Capstone	3
BUSI 498	Business Analytics Internship	3
Required Credits in Major:		24
Total Credits for Major (45 BSBA Core + 24 Required):		69

Typical Four-Year Student Schedule for Business Analytics

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
UNIV 104 College Motivation & Success**	3	UNIV 105 Foundations of Character & Leadership**	3
Humanities Elective	3	COMM 102 Freshmen Writing II	3
COMM 101 Freshmen Writing I	3	STEM Elective	3
MATH 121 College Algebra ***	3	ACCT 202 Principles of Accounting II	3
ACCT 201 Principles of Accounting I	3	SPCH 103 Oral Communication Skills ****	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SOPHOMORE YEAR

FALL SEMESTER		SPRING SEMESTER	
BUSI 241 Business Careers & Communication	3	Humanities Elective	3
DASC 100 Intro to Scientific Programming	3	BUSI 316 Quantitative Methods for Bus. & Econ.	3
ECON 201 Principles of Microeconomics	3	BUSI 231 Business Law I	3
BUSI 215 Information Systems	3	FLEX Elective	3
BUSI 10X Introduction to Business Analytics	3	ECON 202 Principles of Macroeconomics	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
FLEX Elective	3	BUSI 31X Big Data Analytics	3
BUSI 317 Business Statistics	3	BUSI 32X Predictive Modelling for Bus. Analytics	3
BUSI 360 Business Ethics	3	FINA 312 Business Finance	3
MGMT 311 Principles of Management	3	MGMT 420 Organizational Behavior	3
MRKT 321 Principles of Marketing	3	DASC 250 Data Visualization	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
BUSI 41X Business Analytics Capstone	3	Elective Course	3
BUSI 47X Machine Learning	3	BUSI 498 Business Analytics Internship	3
BUSI 407 Global Dimensions of Business	3	BUSI 450 Business Strategy	3
Elective Course	3	Elective Course	3
Elective Course	3	Elective Course	3
TOTAL CREDITS	15	TOTAL CREDITS	15

Additional Requirements: Business Analytics majors must meet all University of Charleston, B.S.B.A. core, and Business Analytics major degree requirements for graduation, including applicable exit exam(s).

* Business Analytics major courses may be offered in online or hybrid formats.

**Transfer students and online students complete UNIV 204 College Success & Leadership.

*** Prerequisite: C or better in MATH 120 or Math ACT score of 21 or higher (Math SAT of 530 or higher).

****SPCH 103 is embedded in UNIV 105 for on-campus students

DIGITAL MARKETING MAJOR

Dr. Scott Bellamy, Interim Program Director

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 can 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 The 54 credits of general education requirements and electives allow students to pursue a double major with Accounting, Financial Planning, Entrepreneurship, Management, or Business Analytics or a minor in another area. Such a combination gives the student a broader range of opportunities and increases marketability upon graduation.

Digital Marketing – Required Courses in Major

Course	Title	Credits
MRKT 371	E-Marketing (Digital Marketing)	3
MRKT 401	Advertising	3
MRKT 402	Marketing Research	3
MRKT 42X	Digital Marketing Strategy Capstone	3
MRKT 498X	Marketing Internship	3
DMDS 201	Digital Media & Graphics	3
DMDS 302	Web & Social Media Design	3
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		SPRING SEMESTER	
COMM 101 Freshman Writing I **	3	COMM 102 Freshman Writing II**	3
MATH 121 College Algebra*	3	SPCH 103 Oral Comm. Fundamentals***	3
HUMN Elective	3	STEM Elective	3
ACCT 201 Principles of Accounting I	3	ACCT 202 Principles of Accounting II	3
UNIV 104 College Motivation & Success	3	UNIV 105 Foundations of Character & Leadership	3
TOTAL CREDITS		TOTAL CREDITS	
15		15	

*Prerequisite: C or better in MATH 120 or Math ACT score of 21 or higher

(Math SAT of 530 or higher).

**Transfer students and online students complete UNIV 204 College Success & Leadership.

***SPCH 103 is embedded in UNIV 105 for on-campus students

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
BUSI 241 Business Careers & Communication	3	FINA 312 Business Finance	3
BUSI 231 Business Law I	3	STEM Elective	3
MGMT 311 Principles of Management	3	BUSI 215 Information Systems	3
DMDS 201 Digital Media & Graphics	3	MRKT 321 Principles of Marketing	3
ECON 201 Principles of Microeconomics	3	ECON 202 Principles of Macroeconomics	3
TOTAL CREDITS		TOTAL CREDITS	
15		15	

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
MRKT 371 Digital Marketing	3	MRKT 401 Advertising	3
BUSI 316 Quantitative Methods for Bus & Econ	3	BUSI 317 Business Statistics	3
BUSI 360 Business Ethics	3	ART 231 Innovation in Art & Business	3
DMDS 302 Web & Social Media Design	3	Flex Elective Course	3
Humanities Elective	3	Elective Course	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
MRKT 402 Marketing Research	3	MRKT 42X Digital Marketing Capstone	3
BUSI 407 Global Dimensions of Business	3	MRKT 498X Marketing Internship	3
MGMT 420 Organizational Behavior	3	BUSI 450 Business Strategy	3
Elective Course	3	Elective Course	3
Flex Elective Course	3	Elective Course	3
TOTAL CREDITS	15	TOTAL CREDITS	15

Additional Requirements

Digital Marketing majors must meet all University of Charleston, B.S.B.A. core, and Digital Marketing major degree requirements for graduation, including applicable exit exam(s).

ENTREPRENEURSHIP MAJOR

Dr. Scott Bellamy, 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 B.S.B.A. 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

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.

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

B.S.B.A. 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 B.S.B.A. degree program requires the completion of all business core outcomes and the major outcomes. The Entrepreneurship major is part of the B.S.B.A. degree and requires a total of 120 institutional credits of academic work, including 45 credits of B.S.B.A. core courses, 21 credits of required entrepreneurship courses, 3 credits of required/restricted electives in the major, and 51 credits of other elective credits.

Entrepreneurship – Required Courses in Major		
ENTR 201	Introduction to Entrepreneurship	3
ENTR 301	Marketing for Startups	3
ENTR 318X	Entrepreneurship Finance (Financial Analysis for Startups)	3
ENTR 355X	Entrepreneurship Strategy	3
ENTR 498X	Entrepreneurship Internship	3
MGMT 318	Organization & Operation of Small Business	3
BUSI 232	Business Law II (Legal Issues in Business)	3
Required Credits in Major:		21
Required Electives (select 3 credit hours from the following):		
MRKT 371	E-Marketing (Digital Marketing)	3
MRKT 402	Marketing Research	3
MGMT 420	Organizational Behavior	3
DMDS 210X	3D Design & Product Development	3
DMDS 311X	Web & Social Media Design	3
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

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
COMM 101 Freshman Writing I**	3	COMM 102 Freshman Writing II**	3
HUMN Electives	3	SPCH 103 Oral Comm. Fundamentals***	3
MATH 121 College Algebra	3	GE Elective	3
ACCT 201 Principles of Accounting I	3	ACCT 202 Principles of Accounting II	3
ECON 201 Principles of Microeconomics	3	ECON 201 Principles of Microeconomics	3
UNIV 104 College Motivation & Success	3	Foundations of Character & Leadership	3
TOTAL CREDITS	18	TOTAL CREDITS	18

*Prerequisite: C or better in MATH 120 or Math ACT score of 21 or higher (Math SAT of 530 or higher).

**Transfer students and online students complete UNIV 204 College Success & Leadership.

***SPCH 103 is embedded in UNIV 105 for on-campus students.

SOPHMORE YEAR

FALL SEMESTER		SPRING SEMESTER	
BUSI 241 Business Careers and Communication	3	BUSI 231 Business Law I	3
BUSI 215 Information Systems	3	BUSI 360 Business Ethics	3
MGMT 311 Principles of Management	3	ENTR 201 Introduction to Entrepreneurship	3
PSYC 101 Introduction to Psychology	3	FINA 312 Business Finance	3
GE Elective	3	GE Elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
BUSI 316 Quant. Methods for Bus. and Econ.	3	BUSI 317 Business Statistics	3
ENTR 301 Marketing for Startups	3	BUSI 407 Global Dimensions of Business	3
MGMT 318 Small Business Management	3	MRKT 321 Principles of Marketing	3
BUSI 232 Business Law II	3	ENTR 318X Entrepreneurship Finance	3
Business Elective	3	MGMT 420 Organizational Behavior	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR

FALL SEMESTER		SPRING SEMESTER	
BUSI 450 Business Strategy	3	ENTR 498X Entrepreneurship Internship	3
ENTR 355X Entrepreneurship Strategy	3	Major Restricted Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
TOTAL CREDITS	12	TOTAL CREDITS	12

Additional Requirements

Entrepreneurship majors must meet all University of Charleston graduation requirements and must take and pass Peregrine Major Test in the last semester of the senior year with C or above in Business Strategy (BUSI 450).

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 21 credit hours and one 3-credit elective.

Entrepreneurship Minor - Required Courses

Course	Credits
ENTR 201 Introduction to Innovation, Entrepreneurship & New Venture Creation	3
ENTR 301 Marketing for Startups	3
BUSI 232 Business Law II	3
ENTR 355X Entrepreneurship Strategy	3
ENTR 318X Financial Analysis for Startups	3
ENTR 498X Entrepreneurship Internship	3
MGMT 318 Small Business Management	3
Total	21

Approved Entrepreneurship Minor Electives – Choose One (1)

ART 105 Design Foundation	3
ART 231 Innovation in Art and Business	3
BUSI 151 Introduction to Business	3
BUSI 215 Business Software	3
BUSI 370 Issues in Capitalism	3
ENTR 350 Special Topics	3
PSYC 101 Introduction to Psychology	3
Total Credits for Entrepreneurship Minor	21

FINANCIAL PLANNING

Jacob Tenney, Ph.D., CFP®, Program Director

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 Adviser
- Accounting and Tax Registered Investment Advisor
- Banking, Credit Unions, Trust Companies
- Discount Brokerage Companies
- Wirehouse Brokerages
- Life & Disability Insurance Companies
- Property and Casualty Insurance Companies
- Independent Broker/Dealers
- Government, Academia/Research

Mission

The mission of the Financial Planning Program is to prepare graduates by helping them acquire a highly marketable skill set involving theory-based financial knowledge, strong analytical tools. The program strives to help students learn to apply critical finance-related reasoning from a strategic perspective to create comprehensive financial plans to help clients reach financial and life goals.

The Financial Planning curriculum is approved by the CFP Board of Standards and prepares students to sit for the CFP® certification examination.

Program Outcomes

At the conclusion of this course of study, in addition to the Business Administration Core outcomes, the graduate will:

- Effectively gather and analyze client data to design financial plans that help clients meet life goals.
- Communicate effectively with clients throughout the process of creating and implementing high-quality financial plans.

What You Will Study

The Financial Planning degree program includes 120 credits of academic work. These hours include 45 credits of Business Administration core, 24 credits Financial Planning core, and 51 credits of general education requirements and electives. The 51

credits of general education requirements and electives allow students to include a minor or possibly double major with Accounting, Entrepreneurship, Management or another applicable major. Such a combination gives the student a broader range of opportunities upon graduation.

B.S. in Business Administration – Core Requirements for All Business Majors		
Course	Title	Credits
ACCT 201	Principles of Accounting I	3
ACCT 202	Principles of Accounting II	3
ECON 201	Principles of Microeconomics	3
ECON 202	Principles of Macroeconomics	3
BUSI 215	Information Systems	3
BUSI 231	Business Law I	3
BUSI 241	Business Careers & Communication	3
BUSI 316	Quantitative Methods for Business & Economics	3
BUSI 317	Business Statistics	3
BUSI 360	Business Ethics	3
BUSI 407	Global Dimensions of Business	3
BUSI 450	Business Strategy	3
FINA 312	Business Finance	3
MGMT 311	Principles of Management	3
MRKT 321	Principles of Marketing	3
B.S.B.A. Core:		45

Financial Planning Program
Typical Four-Year Student Schedule
 (For students entering UC in an even year)

First-Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
UNIV 104 College Motivation & Success	3	UNIV 105 Foundations of Character & Leadership	3
COMM 101 Freshmen Writing I	3	STEM Flex Course	3
MATH 121 College Algebra (STEM Flex)	3	COMM 102 Freshmen Writing II	3
ACCT 201 Principles of Accounting I	3	FINA 205 Fundamentals of Financial Planning	3
FINA 201 Financial Literacy*	3	ACCT 202 Principles of Accounting II	3
		SPCH 103 Oral Communication Skills**	3
Total:	15	Total:	18

Second Year Schedule

Financial Planning Major Core		
Course	Title	Credits
FINA 205	Fundamentals of Financial Planning	3
FINA 305	Risk Management	3
FINA 310	Financial Counseling and Communication	3
FINA 405	Investments	3
FINA 410	Retirement Planning	3
FINA 415	Estate Planning	3
ACCT 423	Federal Income Taxes for Individuals	3

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
ECON 201 Principles of Microeconomics (SS Flex)	3	ECON 202 Principles of Macroeconomics (SS Flex)	3
BUSI 241 Business Careers & Communication	3	FINA 312 Business Finance	3
FINA 305 Risk Management and Insurance	3	MGMT 311 Principles of Management	3
ACCT 423 Federal Income Taxes-Individual	3	FINA 405 Investments	3
BUSI 215 Information Systems	3	FINA 410 Retirement Planning	3
Total:	15	Total:	15

Third Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
FINA 415 Estate Planning	3	FINA 420 Capstone in Financial Planning	3
FINA 310 Financial Counseling and Comm.	3	BUSI 317 Business Statistics	3
BUSI 316 Quantitative Methods for Bus&Econ	3	Humanities Flex Course (Recommend ART 231)	3
BUSI 360 Business Ethics	3	Elective Flex Course (Recommend Literature)	3
BUSI 231 Business Law I	3	MRKT 321 Principles of Marketing	3
Total:	15	Total:	15

Four Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
BUSI 407 Global Dimensions of Business	3	BUSI 450 Business Strategy	3
Humanities Flex course (Recommend ICOM 201)	3	Elective Course	3
Elective FLEX Course (Recommend Science)	3	Elective Course	3
Elective Course	3	Elective Course	3
Internship***		Elective Course	3
Total:	12	Total:	15

* Not required for the Financial Planning Major but strongly recommended.

**SPCH 103 is embedded in UNIV 105

***An internship is not required but strongly recommended.

**Financial Planning Program
Typical Four-Year Student Schedule
(For students entering UC in an odd year)**

First Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
UNIV 104 College Motivation & Success	3	UNIV 105 Foundations of Character & Leadership	3
COMM 101 Freshmen Writing I	3	STEM Flex Course	3
ECON 201 Principles of Microeconomics (SS Flex)	3	COMM 102 Freshmen Writing II	3
MATH 121 College Algebra (STEM Flex)	3	ECON 202 Principles of Macroeconomics (SS Flex)	3
ACCT 201 Principles of Accounting I	3	ACCT 202 Principles of Accounting II	3
		SPCH 103 Oral Communication Skills**	3
Total:	15	Total:	18

Second Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
FINA 201 Financial Literacy*	3	FINA 205 Fundamentals of Financial Planning	3
BUSI 241 Business Careers & Communication	3	FINA 312 Business Finance	3
BUSI 231 Business Law I	3	MRKT 321 Principles of Marketing	3
MGMT 311 Principles of Management	3	Humanities Flex course (Recommend ICOM 201)	3

BUSI 215 Information Systems	3	Elective Course	3
Total:	15	Total:	15

Third Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
FINA 305 Risk Management and Insurance	3	FINA 405 Investments	3
ACCT 423 Federal Income Taxes-Individual	3	FINA 410 Retirement Planning	3
BUSI 316 Quantitative Methods for Bus&Econ	3	BUSI 317 Business Statistics	3
BUSI 360 Business Ethics	3	Humanities Flex Course (Recommend ART 231)	3
Elective Flex Course (Recommend Literature)	3	Elective FLEX Course (Recommend Science)	3
Total:	15	Total:	15

Four Year Schedule

Fall Semester		Spring Semester	
Course	Credit	Course	Credit
FINA 415 Estate Planning	3	FINA 420 Capstone in Financial Planning	3
FINA 310 Financial Counseling and Communication	3	BUSI 450 Business Strategy	3
BUSI 407 Global Dimensions of Business	3	Elective Course	3
Elective Course	3	Elective Course	3
Internship***		Elective Course	3
Total:	12	Total:	15

* Not required for the Financial Planning Major but strongly recommended.

**SPCH 103 is embedded in UNIV 105

***An internship is not required but strongly recommended.

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

- Financial Planning majors must meet all University of Charleston graduation requirements, B.S.B.A degree graduation requirements including applicable exit exam(s), and Financial Planning Major graduation requirements.
- 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 courses (COMM 101 and COMM 102) before the beginning of the sophomore year.
- Internships are strongly recommended 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.

MANAGEMENT MAJOR

Dr. Melissa Farrish, Program Director

The Management major is available online and as an in-seat residential program on the Charleston campus. The B.S.B.A. MGMT program provides a broad overview of the functional areas of business with an emphasis in management. The management major focuses on planning, organizing, leading, and controlling an organization's resources.

The Bureau of Labor Statistics projects employment in management occupations to grow 7% from 2018-2028, faster than the average for all occupations. 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.

The major prepares students for a broad range of occupations. Career opportunities for graduates of the program include:

- Administrative services managers
- Advertising, promotions, and marketing managers
- Compensation and benefits managers
- Management analyst
- Business consultant
- Operations manager
- Business development manager
- Human resource manager
- Retail manager
- Training and development manager

The program integrates professional preparation certifications and experiences throughout the core and major courses. The business administration core includes professional certification opportunities for Microsoft Office Specialist (MOS) certification and Google Analytics. B.S.B.A. MGMT majors gain practical work experience through internships, student organizations, and community service. The program offers the opportunity for students to double major in complementary areas of business or major/minor in fields such as communication, psychology, digital media design, or political science.

Program Mission

The mission of the Management program is to prepare socially responsible, ethical, and insightful leaders with a vision to create positive change in their environment by applying management concepts and theories to solve organizational problems.

Program Description

The management major will 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 prepares students for entry-level management positions in business, government, public service, and technical environments and experienced managers or mid-career professionals wishing to advance their careers. 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 organizational behavior, sales management, human resource management, small business management, leadership, operations management, 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

In addition to the Business Administration Core outcomes, graduates of the management program 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 requires a total of 120 credits, including 45 credits of Business Administration core courses, 24 credits of Management major courses, and 51 credits of general education requirements and electives. The 51 credits of general education requirements and electives allow students to pursue a double major with Accounting, Digital Marketing, Financial Planning, Entrepreneurship, or Business Analytics or a minor in another area. Such a combination gives the student a broader range of opportunities and increases marketability upon graduation.

MANAGEMENT Major Courses		
Course	Title	Credits
MGMT 318	Small Business Management	3
MGMT 320	Human Resources Management	3
MGMT 343	Sales Management	3
MGMT 372X	Leadership and Organizational Change	3
MGMT 416X	Managing Individuals and Teams	3
MGMT 420	Organizational Behavior	3
MGMT 445	Logistics & Supply Chain Management	3
MGMT 498	Management Internship	3
Required Credits in Management Major:		24
Total Credits for Major (45 B.S.B.A. Core + 24 Required in Major):		69

Typical Four-Year Schedule for Management Majors

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
COMM 101 Freshman Writing I	3	COMM 102 Freshman Writing II	3
MATH 121 College Algebra*	3	SPCH 103 Oral Comm. Fundamentals***	3
Humanities Flex Course	3	STEM Flex Course	3
ACCT 201 Principles of Accounting I	3	ACCT 202 Principles of Accounting II	3
UNIV 104 College Motivation & Success**	3	UNIV 105 Foundations of Character & Leadership**	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
BUSI 241 Business Communication	3	BUSI 231 Business Law	3
BUSI 215 Information Systems	3	BUSI 360 Business Ethics	3
ECON 201 Principles of Microeconomics	3	ECON 202 Principles of Macroeconomics	3
MGMT 311 Principles of Management	3	MRKT 321 Principles of Marketing	3
Flex Elective	3	Flex Elective	3
TOTAL CREDITS	15	TOTAL CREDITS	15

JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
BUSI 316 Quantitative Methods for Business & Economics	3	BUSI 317 Business Statistics	3
FINA 312 Business Finance	3	MGMT 320 Human Resource Mgmt	3
MGMT 318 Small Business Management	3	MGMT 372X Leadership & Organizational Change	3
Humanities Flex	3	MGMT 343 Sales Management	3
Elective Course	3	Elective Course	3
TOTAL CREDITS	15	TOTAL CREDITS	15

SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
BUSI 407 Global Dimensions of Business	3	BUSI 450 Business Strategy	3
MGMT 445 Logistics & Supply Chain Management	3	MGMT 420 Organizational Behavior	
MGMT 416X Managing Individuals & Teams	3	MGMT 498 Management Internship	3
Elective Course	3	Elective Course	3
Elective Course	3	Elective Course	3
TOTAL CREDITS	15	TOTAL CREDITS	15

*Prerequisite: C or better in MATH 120 or Math ACT score of 21 or higher (Math SAT of 530 or higher).

**Transfer students and online students complete UNIV 204 College Success & Leadership.

***SPCH 103 is embedded in UNIV 105 for on-campus students.

Admission Requirements

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

Additional Requirements

Management majors must meet all University of Charleston, B.S.B.A. core, and Management major degree requirements for graduation, including applicable exit exam(s).

SPORT ANALYTICS (SPAN) MAJOR

Dr. Brian Pruegger, Program Director

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 BusinessMinor section.

From the Faculty

The Sport Analytics program blends general education, business, data analytics, computer science 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. Actively apply written, public speaking and personnel management skills in sport industry environments.
2. 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

Sport Analytics – Required Courses in Major		
Course	Title	Credits
SPBU 101	Introduction to Sport Business	3
SPBU 220	Coaching Theory	3
SBPU 250	Social Issues in Sport Business	3
SPBU 298	Practicum Experience	1
SPBU 301	Sport Sales/Marketing	3
SPBU 3XX	Sport Analytics Theory and Practice	3
SPBU 390	Junior Seminar	1
SPBU 435	Sport Business Ethics	3
SPBU 460	Sport Law	3

SPBU 498	Internship in Sport Business	3
DASC 100	Introduction to Scientific Programming	3
DASC 101	Introduction to Data Science	3
DASC 250	Data Visualization	3
Required Credits in Sport Analytics Major:		35
Total Credits (45 BSBA Core + 26 SPBU + 9 DASC):		80

Typical Four-Year Student Schedule for Sport Analytics Major

FRESHMAN YEAR			
Fall Semester		Spring Semester	
UNIV 104 College Motivation & Success	3	UNIV 105 Character & Leadership	3
NSCI 117 Why Science Matters	3	HUMN 110 Unheard Voices	3
BUSI 241 Business Careers & Comm'cn	3	SPBU 101 Introduction to Sport Business	3
DMDS 101 Intro Digital Media Design	3	MATH 121 College Algebra	3
COMM 101 Freshmen Writing I*	3	COMM 102 Freshmen Writing II*	3
MATH 120 Intermediate Math (if needed)	3	SPCH 103 Fundamentals of Oral Communication	3
TOTAL	15	TOTAL	18

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

SOPHOMORE YEAR			
Fall Semester		Spring Semester	
ACCT 201 Principles of Accounting	3	ACCT 202 Accounting II	3
SPBU 250 Social Issues in Sport/Business	3	SPBU 225 Sport Media	3
BUSI 231 Business Law	3	General Elective	3
DASC 100 Intro to Scientific Programming	3	ECON 202 Prin. of Macroeconomics	3
ECON 201 Principles of Microeconomics	3	SPBU 298 Practicum Experience	1
		BUSI 215 Information Systems	3
TOTAL	15	TOTAL	16

JUNIOR YEAR			
Fall Semester		Spring Semester	
DASC 101 Intro to Data Science	3	SPBU 301 Sport Sales/Marketing	3

General Elective	3	SPBU 390 Junior Seminar	1
MGMT 311 Principles of Management	3	SPBU 435 Sport Ethics	3
BUSI 316 Quant. Methods for Business	3	BUSI 317 Business Statistics	3
SPBU 220 Coaching Theory	3	FINA 312 Business Finance	3
		DASC 250 Data Visualization	3
TOTAL:		15	TOTAL:
Senior Year			
Fall Semester		Spring Semester	
SPBU 3XX Sport Analytics Theory/Practice	3	SPBU 498 Sport Business Internship	3
SPBU 460 Sport Law	3	BUSI 450 Business Strategy	3
MRKT 321 Principles of Marketing	3	General Elective	3
MGMT 420 Organizational Behavior	3	BUSI 407 Global Dimensions of Business	3
General Elective	3		
TOTAL:		15	TOTAL:
			12

Additional Requirements

Students must meet all General Education course requirements for graduation from the University of Charleston. In addition, students must achieve a grade of “C” or higher in each Sport Business course. Students must also pass the SPAN 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.

SPORT BUSINESS MAJOR

Dr. Brian Pruegger, Program Director

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 General education, 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. Demonstrate the ability to think critically and ethically as a sport business industry professional.
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

Sport Business Major – Required Courses

Course	Title	Credits
SPBU 101	Introduction to Sport Business	3
SPBU 225	Sport Media	3
SBPU 250	Social Issues in Sport/Business	3
SPBU 298	Practicum Experience	1

SPBU 301	Sport Sales/Marketing	3
SPBU 320	Facility/Event Management	3
SPBU 360	Sport/Business Psychology	3
SPBU 390	Junior Seminar	1
SPBU 435	Sport Ethics	3
SPBU 460	Sport Law	3
SPBU 499	Internship in Sport Business	12
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			
Fall Semester		Spring Semester	
UNIV 104 College Motiv'n & Success	3	UNIV 105 Character & Leadership	3
NSCI 117 Why Science Matters (STEM Natural Science Elective)	3	HUMN 110 Unheard Voices (Humanities Elective)	3
BUSI 215 Information Systems	3	SPBU 101 Introduction to Sport Business	3
General Elective	3	MATH 121 College Algebra (STEM Elective)	3
COMM 101 Freshmen Writing I*	3	COMM 102 Freshmen Writing II*	3
MATH 120 Intermediate Math (if needed)	3	SPCH 103 Fundamentals of Oral Communication	3
TOTAL:	15	TOTAL:	18

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

SOPHOMORE YEAR			
Fall Semester		Spring Semester	
ART 100, 231, 250 or DMDS 101	3	ACCT 202 Principles of Accounting II	3
ACCT 201 Principles of Accounting I	3	SPBU 225 Sport Media/Information	3
SPBU 250 Social Issues in Sport/Business	3	ECON 202 Principles of Macroeconomics (SS Elective)	3
SPBU 298 Practicum Experience	1	BUSI 241 Business Careers & Communication	3
General Elective	3	MGMT 311 Principles of Management	3
ECON 201 Principles of Microeconomics (SS Elective)	3	BUSI 231 Business Law	3
TOTAL	16	TOTAL	18

JUNIOR YEAR			
Fall Semester		Spring Semester	
SPBU 320 Facility/Event Management	3	SPBU 301 Sport Sales/Marketing	3
SPBU 360 Sport/Business Psychology	3	SPBU 390 Junior Seminar	1
MRKT 321 Principles of Marketing	3	SPBU 435 Sport Ethics	3
BUSI 316 Quant. Methods for Business	3	BUSI 317 Business Statistics	3
BUSI 407 Global Dimensions of Business	3	FINA 312 Business Finance	3
		General Elective	3
TOTAL		15	TOTAL
			16

Senior Year			
Fall Semester		Spring Semester	
BUSI 450 Business Strategy	3	SPBU 499 Internship in Sport Business**	12
SPBU 460 Sport Law	3		
UNIV 459 University Capstone	3		
MGMT 420 Organizational Behavior	3		
General Elective	1		
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 that interns develop at the work site. The remaining 9 credits will be chosen in consultation with the program director from upper-level (3-400) SPBU, MGMT, FINA, MRKT, and BUSI courses.

Additional Requirements

Students must meet all General Education course requirements for graduation from the University of Charleston. In addition, students 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:

Course and Title	Credits
SPBU 101 Introduction to Sport Business	3
Plus, Choose two (2) from the following:	6
SPBU 250 Social Issues in Sport/Business	
SPBU 225 Sport Media	
SPBU 220 Coaching Theory	
Plus, Choose two (2) from the following:	6
SPBU 301 Sport Sales & Marketing	
SPBU 310 Recreation/Fitness Management	
SPBU 320 Facility/Event Management	
SPBU 360 Sport and Business Psychology	
Plus, Choose one (1) from the following:	3
SPBU 435 Sport Ethics	
SPBU 460 Sport Law	
Total Credits for SPBU Minor	18

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 general education, 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 the student an 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 BusinessMinor 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. The Program includes 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

Sport Media – Required Courses in Major		
Course	Title	Credits
SPBU 101	Introduction to Sport Business	3
SPBU 225	Sport Media	3
SBPU 250	Social Issues in Sport Business	3
SPBU 298	Practicum Experience (Sophomore and Senior year)	1 + 1
SPBU 301	Sport Sales/Marketing	3
SPBU 360	Sport/Business Psychology	3
SPBU 390	Junior Seminar	1
SPBU 435	Sport/Business Ethics	3
SPBU 460	Sport Law	3
SPBU 498	Internship in Sport Business	3
ICOM 221	Introduction to Journalism	3
ICOM 305	Public Relations Campaigns	3
DMDS 311	Social Media & Product Development	3
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			
Fall Semester		Spring Semester	
UNIV 104 College Motivation & Success	3	UNIV 105 Character and Leadership	3
NSCI 117 Why Science Matters	3	HUMN 101 Introduction to Humanities	3
BUSI 215 Information Systems	3	SPBU 101 Introduction to Sport Business	3
General Elective	3	MATH 121 College Algebra	3
COMM 101 Freshmen Writing I*	3	COMM 102 Freshmen Writing II*	3
MATH 120 Intermediate Math (if needed)	3	SPCH 103 Fundamentals of Oral Communication	3
TOTAL: 15		TOTAL: 18	

* COMM 101, COMM 102 are embedded in NSCI 117, HUMN 1XX courses.

SOPHOMORE YEAR			
Fall Semester		Spring Semester	
ACCT 201 Principles of Accounting I	3	ACCT 202 Principles of Accounting II	3
SPBU 250 Social Issues in Sport/Business	3	SPBU 225 Sport Media	3
SPBU 298 Practicum Experience I	1	ECON 202 Principles of Macroeconomics	3
BUSI 231 Business Law	3	HIST 212 World Cultures II	3
ECON 201 Principles of Microeconomics	3	BUSI 241 Business Careers & Communication	3
DMDS 101 Intro Digital Media Design	3	ICOM 221 Introduction to Journalism	3
TOTAL	16	TOTAL	18
JUNIOR YEAR			
Fall Semester		Spring Semester	
DMDS 311 Social Media & Product Development	3	SPBU 301 Sport Sales/Marketing	3
SPBU 360 Sport/Business Psychology	3	SPBU 390 Junior Seminar	1
MGMT 311 Principles of Management	3	SPBU 435 Sport Ethics	3
BUSI 316 Quant. Methods for Business	3	BUSI 317 Business Statistics	3
General Elective	3	FINA 312 Business Finance	3
SPBU 298 Practicum Experience II	1	General Elective	3
TOTAL	16	TOTAL	16
SENIOR YEAR			
Fall Semester		Spring Semester	
ICOM 305 Public Relations Campaigns	3	SPBU 498 Internship in Sport Business	3
SPBU 460 Sport Law	3	BUSI 450 Business Strategy	3
MRKT 321 Principles of Marketing	3	UNIV 459 or 460 University Capstone	3
General Elective	3	BUSI 407 Global Dimensions of Business	3
TOTAL	12	TOTAL	12

Additional Requirements

Students must meet all General Education course requirements for graduation from the University of Charleston. In addition, students must achieve a grade of “C” or higher in each Sport Business course. Students must also pass the SPME 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 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 Courses. A number of popular and challenging extracurricular activities are associated with these courses.

Reserved Officers Training Corps (ROTC) – Basic Course (Pre-commissioning and Leadership Development Curriculum)	
Course	Credit
MSCI 101 Introduction to Military Science	2
MSCI 102 Introduction to Leadership	2
MSCI 103 Military Leadership Laboratory I	1
MSCI 201 Military Leadership Laboratory II	1
MSCI 150 Basic Physical Fitness and Conditioning (Repeatable – Co-requisite with MSCI 201)	1
MSCI 202 Military Leadership Laboratory III	1
MSCI 150 Basic Physical Fitness and Conditioning (Repeatable – Co-requisite with MSCI 202)	1
MSCI 203 Military Leadership Laboratory IV	1
Total:	10

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.

Reserved Officers Training Corps (ROTC) – Advanced Course

Course	Credit
MSCI 210 Camp Challenge (LTC)	0-6
MSCI 250 Basic Physical Fitness and Conditioning	1
MSCI 251 Basic Physical Fitness and Conditioning	1
MSCI 301 Leading Small Organizations I	2
MSCI 302 Leading Small Organizations II	2
MSCI 303 Advanced Course Leadership Laboratory I	1
MSCI 304 Advanced Course Leadership Laboratory II	1
MSCI 310 ROTC National Advanced Leadership Course (NALC)	6
Total:	14-20

BACHELOR OF SCIENCE IN CYBER SECURITY 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 Institutional 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.

Prerequisite Cybersecurity Courses (9 transfer credits)

Course	Credits
ORGL 150: Intro to Professional Development	3
CYBR 100: Intro to Computers (or A+ Certification)	3
CYBR 110: Intro to Networking (or Net + Certification)	3
CYBR 120: Intro to Security (or Security + Certification)	3
Total	12

Foundational Courses (31 credits)*

Course	Credits
COMM 101: Freshman Writing I	3
COMM 102: Freshman Writing II	3

SPCH 103: Oral Communication Fundamentals	3
SSCI 105: Issues in Social Science	3
HIST 212: World Cultures II	3
HUMN 101: Intro to Humanities	3
ENGL XXX: Literature Course	3
NSCI 112 or 117: Science Course	4
MATH 120 or 121: College Algebra	3
Total	28

* Some foundational course requirements may be met with transfer credits; this will vary by student.

Required Cyber Courses (9 credits)	
Course	Credits
CYBR 310 Cybersecurity Strategy	3
CYBR 440 Advanced Security Trends	3
CYBR 450 Cybersecurity Capstone	3
Total	9
Elective Cyber Courses (15-18 credits)	
Course	Credits
CYBR 320 Ethical Hacking & Countermeasures (Certified Ethical Hacker)	3
CYBR 330 Incident Handler	3
CYBR 340 Security Analysis	3
CYBR 410 Certified Information Systems Security Professional - Phase I	3
CYBR 415 Certified Information Systems Security Professional - Phase II	3
Elective Agreement (e.g. COSMO, COG, ETA Information Technology Security Exam, etc.)	3
Total	15-18
Minor Electives (18-21 credits)	
Organizational Leadership Minor	
BUSI 151 Introduction to Business	3
ORGL 309: Collaborative Leadership	3
ORGL 316: Ethics	3

ORGL 430: Leading Teams: Practicum	3
ORGL 401: The Learning Organization	3
ORGL 406: Organizational Development & Change	3
Total	18
Business Administration Minor	
BUSI 151: Introduction to Business	3
ACCT 201: Principles of Accounting I	3
ACCT 202: Principles of Accounting II	3
BUSI 201: Principles of Microeconomics	3
FINA 312: Business Finance	3
MGMT 311: Principles of Management	3
MRKT 321: Principles of Marketing	3
Total	21
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.

ORGANIZATIONAL LEADERSHIP
Dr. Dale Retzlaff, Program Director

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 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 a leadership concentration for First Responder/Criminal Justice Leadership. In this 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.

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 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 continually 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.

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		
FIRST SEMESTER		
ORGL 150	Introduction to Professional Development	3 credits
BUSI 151	Introduction to Business	3 credits
ORGL 301	The Adult Learner	3 credits
ORGL 302	Principles and Issues of Management	3 credits
SECOND SEMESTER		
ORGL 305	Principles and Issues of Human Resources	3 credits
ORGL 307	Leadership	3 credits
ORGL 309	Collaborative Leadership	3 credits
ORGL 316	Ethics	3 credits
THIRD SEMESTER		
ORGL 401	The Learning Organization	3 credits
ORGL 402	Organizational Behavior	3 credits
ORGL 408	Action Research	3 credits
ORGL 430	Developing Teams	3 credits
FOURTH SEMESTER		
ORGL 406	Organizational Development and Change	3 credits
ORGL 413	Human Resource Development	3 credits
ORGL 415	Leadership Communication	3 credits
ORGL 435	Organizational Leadership Senior Capstone	3 credits

ORGANIZATIONAL LEADERSHIP CONCENTRATION

Concentrations allow the student to develop additional expertise in a selected area of study. There is one area of concentration available to ORGL students. Course requirements for the concentration are outlined below:

First Responder/ Criminal Justice Concentration

FIRST RESPONDER/CRIMINAL JUSTICE CONCENTRATION – 15 CREDIT HOURS		
OLFR 302	Principles & Issues of Emergency Planning & Management	3 credits
OLFR 316	Ethical Responsibility & Diversity Awareness in Public Safety	3 credits
OLFR 415	Leadership Communication & Media/Community Relations	3 credits
OLFR 402	Organizational Behavior & Public Trust Formation	3 credits
OLFR 435	Leadership Capstone: Assessing the First Responder Culture	3 credits

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.

ORGANIZATIONAL LEADERSHIP MINOR - 18 CREDIT HOURS		
BUSI 151	Introduction to Business	3 credits
ORGL 309	Collaborative Leadership	3 credits
ORGL 401	The Learning Organization	3 credits
ORGL 402	Organizational Behavior	3 credits
ORGL 430	Developing Teams	3 credits
ORGL 406	Organizational Development and Change	3 credits

FRONTLINE LEADERSHIP MAJOR

Dr. Dale Retzlaff, 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 adultlearner.

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, 24 credit hours meeting the University's Foundation Courses, and 12 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:

Leadership Courses	Credits	LLOs	Credits
FLDR 150: Leadership Journeys	3	SSCI 105 Issues in Social Science	3
FLDR 220: Growing Leaders	3	SSCI 105 History 212	3
FLDR 240: Performance Improvement Initiatives	3	COMM 101 Freshman Writing I	3
FLDR 260: Leading Project Teams	3	COMM 102 Freshmen Writing II	3
ORGL 150: Introduction to Professional Development	3	MATH 116 Survey of Math. or 120 College	3
ORGL 301: The Adult Learner	3	HUMN 101 Introduction to the Humanities	3

ORGL 302: Principles & Issues of Management	3	SPCH 103 Oral Communication Fundamentals	3
ORGL 316: Ethics	3	NSCI 117 Why Science Matters	3
		Electives	12
Total FLDR Credits	24	Total LLO & Elective Credits	36

MASTER OF BUSINESS ADMINISTRATION (MBA)

Dr. Rick Ferris, Program Director

John Finlayson, MBA, Associate Director of Development

Program Description

The University of Charleston's innovative MBA Program is designed for current and emerging professionals from diverse backgrounds who want to advance their careers. The 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 MBA program is offered fully online and in a hybrid format with class meetings in Charleston, WV. Each modality features six starts per year and rapid completion pathways. 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 are enrolled in the pharmacy or PA program, take MBA coursework as a PharmD or PA student, and complete their PharmD (or PA) and MBA degrees at the same time.

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, 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 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 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 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 the summer-A term during the International Business & Trade course (MBA-675). This international travel allows students to experience and assess the economic, cultural, political, ethical, financial, and general business challenges and opportunities abroad. Students choosing the travel option 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 China, Ireland, Panama, Brazil, Spain, Vietnam, and Colombia. The travel component does require additional fees above the regular MBA tuition for the International Business & Trade course.

Admission Requirements

(**Visit:** <https://www.ucwv.edu/academics/majors-degrees/master-of-business-administration-mba/>)

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

- Advising session to create your educational pathway based on your program goals, transcripts, work experience, etc.

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 MBA program is available fully online and in a hybrid format with weekly class meetings on the Charleston, WV campus. The online program also offers, but does not require, weekly check-ins to engage with instructors and classmates. The eight core courses in the program are in 7-week sessions and are three-credit hours each. The capstone experience of the 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 12-16 months and students may choose from available concentrations. Highly motivated students interested in a fast-track may be able to complete our MBA in as little as one year.

Athletes playing a sport hosted by the University of Charleston and regional students (residing within 31 miles from campus) without full-time professional work positions or without 2+ years of professional work experience will also enroll in hybrid sections and MBA Professional Experience coursework that includes additional weekly meetings and professional practice in the Greater Regional Charleston community; these professional experience courses are two credit hours each for three semesters. Professional experience coursework is designed to meet the needs of emerging business professionals in the central Appalachian region seeking to earn their MBA. Students will be paired with regional mentors, introduced to regional social networking opportunities, and have two required internships. At least one of these internships is required to be off campus. All these activities enhance our students' ties to the region, opening professional opportunities during the program and after graduation.

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/or do remedial work under the supervision of faculty members.

Students should 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.

MBA Core Courses (24 credit hours)

- 1. MBA 671 Management3 credits
- 2. MBA 672 Managerial Accounting3 credits
- 3. MBA 673 Applied Marketing3 credits
- 4. MBA 674 Quantitative Methods for Business & Economics 3 credits
- 5. MBA 675 International Business & Trade3 credits
- 6. MBA 676 Managerial Economics3 credits
- 7. MBA 677X Managerial Finance3 credits
- 8. MBA 678X Strategic Decision Making.....3 credits

MBA Concentrations (9 credit hours each)

In addition to the MBA core courses, 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 Behavior3 credits
- 2. MBA 712X Operations Management3 credits
- 3. MBA 713X Leadership and Ethics3 credits

Healthcare Management Concentration:

Develop solutions to operational issues in the management of healthcare systems.

- 1. MBA 721 Healthcare Informatics3 credits
- 2. MBA 722X Healthcare Economics3 credits
- 3. MBA 723X Healthcare Policy & Ethics3 credits

Business Analytics Concentration:

Demonstrate ability to apply business analytics tools to find solutions to business problems.

- 1. MBA 731 Business Analytics for Managers3 credits

2. MBA 732 Data Visualization & Data Mining3 credits
3. MBA 733 Data Science Applications & Technologies3 credits

Experiential Learning Track

Required for regional students, athletes, and GAs, who currently do not hold professional positions (defined as Exempt or Professional, e.g. nurse, by the Department of Labor), or two years of professional work experience.

1. MBA 591 Experiential Learning I 2 credits
2. MBA 592 Experiential Learning II 2 credits
3. MBA 594 Experiential Learning IV 2 credits

Transfer Credit

Students must take a minimum of nine (9) 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 MBA from the University of Charleston.

Refunds

The weekly hybrid or online format may consist 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/>

MASTER OF SCIENCE IN CYBER SECURITY
Dr. Matthew D. Gonzalez, Program Director

Mission

The mission of the Master of Science in Cyber Security 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 Cyber Security program is built to expand upon the undergraduate Cyber Security program, while providing bachelor's degree prepared individuals the opportunity to gain additional knowledge, skill and experience, and establish competency in the field of Cyber Security at the graduate level.

- Graduates will be prepared to contribute to and lead others in quickly evolving areas of Cyber Security, including strategy, planning and program management.
- The Cyber Security program covers seven main categories of cyber operations, in alliance with The National Cyber Security Workforce Framework. Graduates will be prepared to conduct the following Cyber Security 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 Cyber Security initiatives preparing them for a variety of managerial and leadership careers in the rapidly growing industry of Cyber Security.
- The National Initiative for Cyber Security 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 Master of Science in Cyber Security 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 Cyber Security 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.

Master of Science in Cyber Security -- Curriculum	
Course	Credits
CYBR 610: Cyber Operations Management	3
CYBR 615: Strategic Cyber Intelligence	3
CYBR 620: Legal Issues in Cyber Security	3
CYBR 625: Cyber Psychology	3
CYBR 630: Offensive and Defensive Strategies	3
CYBR 635: Security and Information Data Analytics	3
CYBR 640: Strategic Investments in Information Security	3
CYBR 645: Enterprise Infrastructure Planning & Safeguarding	3
CYBR 650: Cyber Security Policy Implementation	3
CYBR 660: Capstone: Practical Applications in Security	3
Total Credits	30

MASTER OF SCIENCE IN STRATEGIC LEADERSHIP

Professor Mindy Perot, 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 610 Strategic Thinking.....	3 Credits
GSL 506 The Human Side of Organizations.....	3 Credits
GSL 507 Reframing Leadership	3 Credits
GSL 615 Leading Across Boundaries	3 Credits
GSL 630 Strategic Project Management	3 Credits
GSL 601 Organizational Theory	3 Credits
GSL 629 Research Methods.....	3 Credits
GSL 64X Strategic Issues in (concentration choice)	3 Credits
GSL 65X Strategic Decision Making in (concentration choice)	3 Credits
GSL 66X Strategic Innovation in (concentration choice)	3 Credits
GSL 690 Strategic Leadership Capstone.....	3 Credits

Concentration Options:

Strategy as Practice

GSL 641 Strategic Issues in Strategy as Practice3 Credits

GSL 651 Strategic Decision Making in Strategy as Practice. 3 Credits

GSL 661 Strategic Innovation in Strategy as Practice.....3 Credits

Business Leadership

GSL 642 Strategic Issues in Business Leadership3 Credits

GSL 652 Strategic Decision Making in Business Leadership3 Credits

GSL 662 Strategic Innovation in Business Leadership3 Credits

Healthcare Leadership

GSL 644 Strategic Issues in Healthcare Leadership3 Credits

GSL 654 Strategic Decision Making in Healthcare Leadership3 Credits

GSL 664 Strategic Innovation in Healthcare Leadership3 Credits

Students in the GSL program can choose one of the above concentrations. The concentration consists of 12 credit hours. Three courses (9 credit hours) from the concentration and GSL 690 Strategic Leadership Capstone (3 credit hours).

Strategy as Practice Specialization

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 Leadership Specialization

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 Leadership Specialization

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.

Graduate Certificate in Strategic Leadership

The Strategic Leadership Certificate (SLC) explores principles of leadership theory and examines elements of strategic leadership required to navigate complex environments, influence others, build teams and support networks, manage change and set strategic organizational direction. Participants work through an integrative framework for problem-based and action learning to identify strategic challenges within their organization and apply strategic foresight to develop and articulate reasoned judgments on strategic issues and facilitate strategic excellence within and outside their organization.

Program Mission:

To educate leaders through strategic engagement and accountability by applying strategic foresight to develop and articulate reasoned judgments on strategic issues and facilitate strategic excellence within their organization.

Certificate Objectives (PLOs):

1. Design integrated strategic plans for organizations, communities, or institutions related to the student's area of specialization.
2. Develop processes for sustainment of strategic capacity of organizations, communities, or institutions.
3. Create processes for ensuring engagement and accountability in implementation of strategic initiatives.
4. Synthesize learning from program and personal experiences to create a plan for continued growth as a strategic leader in one's area of specialization for organizations, communities, or institutions.

Number of credits

The SLC requires a total of 12 credit hours. Students will complete the regular admissions process for the MSSL program, as this is an academic credit-bearing certificate. An academic certificate is awarded upon completion of the designated four courses with a grade of "C" or better for a total of 12 graduate credit hours.

Required Core Courses:

GSL 510 Art and Science of Strategic Leadership 3 Credits

GSL 610 Strategic Thinking 3 Credits

GSL 506 The Human Side of Organizations 3 Credits

GSL 507 Reframing Leadership 3 Credits

DOCTOR OF EXECUTIVE LEADERSHIP
Dr. Kristen Dugan, 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

Academic Progress:

The Doctor of Executive Leadership program requires students to complete all coursework, earning no more than two 'C' grades. Students must also maintain a cumulative GPA of 3.0 or higher. Students who do not meet these requirements will be placed on academic probation and complete a contract and plan for improvement. The Program Director and Associate Dean will work with the student to create an appropriate plan for returning to good academic standing. A student may be required to repeat courses

until the student achieves compliance with the above requirements. Students who continue to fail to meet the GPA and grade requirements may be dismissed from the program.

Candidacy:

A student achieves candidacy when the following requirements are met:

1. Completion of all 700- and 800-level coursework with a GPA of 3.0 or higher and no more than two C grades.
2. Successful defense of the Professional Portfolio, including a dissertation prospectus.

Upon achieving Candidacy, the student is permitted to enroll in dissertation coursework.

A DEL student should normally complete all Leadership Core courses, successfully defend the Professional Portfolio, and successfully defend the dissertation within three (3) years of entry into the doctoral program. 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. A student requesting an extension of one academic year must have demonstrated progress in dissertation work and submit a plan for completion within the extension period.

If the student fails to complete the degree requirements for the program by the end of the first extension period, the student may request a second extension of one additional academic year. Any student requesting a second extension must provide evidence of extenuating circumstances which prevented the completion of the dissertation during the first extension period. A second extension period requires the endorsement of the Chair and Program Director and the approval of the Associate Dean. A student requesting a second extension must have demonstrated significant progress in dissertation work and submit a plan for completion within the extension period.

Under extraordinary circumstances, a student who fails to complete the degree requirements for the program by the end of the second extension period may appeal to the Dean for one additional academic year extension. The Dean will review the request, which must include evidence of extenuating circumstances, endorsement from the Program Director and Associate Dean, and a plan for completion during the final extension period.

Students who receive an extension will be enrolled in dissertation continuation courses until the dissertation assessment is passed. The first dissertation continuation course enrollment is equivalent to three (3) credit hours in the first semester of the extension. Subsequent dissertation continuation courses are equivalent to one (1) credit hour per semester.

A student who fails to complete the program within three (3) years of entry, or during approved leave of absence and extension periods not to exceed six (6) academic years from the time of entry, will be dismissed from the program. Failure to maintain continuous enrollment in at least one credit hour from the achievement of candidacy until

the dissertation is accepted will result in loss of candidacy and possible dismissal from the program.

Leave of Absence:

Events may occur that make it necessary for a student interrupt his or her progress toward a degree. A leave of absence may be granted to students for personal illness or injury or to provide care for a family member experiencing illness or injury, military service obligations, or other extenuating personal reasons by recommendation of the Program Director and approval of the Associate Dean. A leave of absence enables a student to not register for dissertation continuation hours and remain in compliance with the continuous enrollment requirement. The leave of absence is designed to allow students the time necessary to focus on the reasons for leave. Students on an approved leave of absence may not engage in regular contact with dissertation committee members or conduct research associated with the dissertation. Dissertation committee members will be made aware of any approved leave of absence and should direct the student to the Program Director for any questions or concerns. A leave of absence may be approved for no more than twelve consecutive months. Failure to re-enroll at the end of the approved leave period will result in loss of candidacy and possible dismissal from the program.

No tuition and fees are charged for the period during which a student is on a leave of absence. A leave of absence may have implications for a student's federal financial aid and loans. Students should consult with the Financial Aid Office to understand how a leave status might affect their aid and eligibility to defer loan repayment.

An approved leave of absence is counted toward the maximum completion time of six (6) years from the time of entry.

BERT BRADFORD SCHOOL OF HEALTH SCIENCES

Mindy M. Smith-Amburgey D.E.L.,M.B.A.,M.A.,B.S.R.T.(R)(M), RDMS, Dean

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

[EXERCISE SCIENCE](#)

[HEALTH PROMOTION](#)

[OCCUPATIONAL THERAPY ASSISTANT](#)

[RADIOLOGIC SCIENCE](#)

[RADIOLOGIC TECHNOLOGY](#)

[HEALTH SCIENCE MINOR](#)

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

Amy F. Bruce, DNP, MSN, RN, NE-BC, Department Chair, Program Director of Nursing

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 Institutional 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 ADN, 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

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

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_ <https://www.cdc.gov/vaccines/hcp/index.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 15 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 Institutional 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 (2019)

- ADN Beckley Pass Rate 80.95%
- ADN Charleston Pass Rate 100%
- Employment Rate 100%
- Completion Rate Beckley 90.66%
- Completion Rate Charleston 90%

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 60 credit hours with a 4 credit-hour pre-requisite requirement. 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. Students will be required to complete on-campus activities as designated by his or her instructor.

Associate Degree Nursing Program Curriculum Sequence

Semester 1		
COMM 101	Freshmen Writing I	3
NURSA 101	Fundamentals of Nursing	4
NURSA 101L	Fundamentals of Nursing Clinical/Lab/Simulation	2
NURSA 204	Health Assessment	3
NURSA 204L	Health Assessment Clinical/Lab/Simulation	1
PSYCH 212	Lifespan Development	3
TOTAL		16

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.

Semester 2		
COMM 102	Freshmen Writing II	3
NURSA 110	Medical Surgical Nursing I	4
NURSA 110L	Medical Surgical Nursing I Clinical/Lab/Simulation	2
NURSA 115	Mental Health Nursing	2
NURSA 115L	Mental Health Nursing Clinical/Lab/Simulation	1
NURSA 125	Pathopharmacology I	2
TOTAL		14

Please Note: Successful completion of all courses listed for a semester is required for the student to enroll in courses for the following semester.

Semester 3

NURSA 215		Pathopharmacology II		2	
NURSA 225		Medical Surgical Nursing II		4	
NURSA 225L		Medical Surgical Nursing II Clinical/Lab/Simulation		2	
NURSA 230	NURSA 240	Obstetric Nursing	Pediatric Nursing	2	2
NURSA 230L	NURSA 240L	Obstetric Nursing Clinical/Lab/Simulation	Pediatric Nursing Clinical/Lab/Simulation	1	1
ELECTIVE		Elective		2	
TOTAL				16	

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.

Semester 4

NURSA 235		Medical Surgical Nursing III		4	
NURSA 235L		Medical Surgical Nursing III Clinical/Lab/Simulation		2	
NURSA 250		Nursing Practicum		2	
NURSA 250L		Nursing Practicum Clinical/Lab/Simulation		4	
NURSA 255		NCLEX-RN		2	
TOTAL				14	

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.

BACHELOR OF SCIENCE IN NURSING

Features of Distinction

Rank #3 out of 26 registered nursing programs in West Virginia by
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 (2019)

- Pass Rate 95.45%
- Employment Rate 100%
- Completion Rate 95.83%

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.

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 120 credits hours. Some courses may be offered online or in a hybrid format.

Bachelor's Degree Nursing Program Curriculum Sequence

FRESHMAN					
FALL			SPRING		
BIOL 171	Anatomy and Physiology I	3	BIOL 172	Anatomy and Physiology II	3
BIOL 171L	Anatomy and Physiology I Lab	1	BIOL 172L	Anatomy and Physiology II Lab	1
COMM 101	Freshman Writing I	3	COMM 102	Freshman Writing II	3
SSCI FLEX	Social Sciences FLEX Course	3	MATH FLEX	STEM FLEX Course	3
HSCI 110	History of Health Sciences	3	SPCH 103*	Oral Communication Skills*	3
UNIV 104X	College Motivation & Success	3	UNIV 105X	Foundations of Character & Leadership	3
TOTAL		16	TOTAL		16

*Embedded in UNIV 104 and UNIV 105

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.

SOPHOMORE

FALL			SPRING		
HSCI 212	Drug and Dosage Calculations	3	HSCI 230	Interprofessional Collaboration	3
NURSB 201	Fundamentals of Nursing	4	NURSB 210	Medical Surgical Nursing I	4
NURSB 201L	Fundamentals of Nursing Lab/Clinical/Simulation	2	NURSB 210L	Medical Surgical Nursing I Clinical/Lab/Simulation	2
NURSB 204	Health Assessment	3	NURSB 215	Mental Health Nursing	2
NURSB 204L	Health Assessment Lab/Clinical/Simulation	1	NURSB 215L	Mental Health Nursing Clinical/Lab/Simulation	1
PSYCH 212	Lifespan and Development	3	NURSB 225	Pathopharmacology I	2
TOTAL		16	TOTAL		14

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.

JUNIOR

FALL			SPRING		
HSCI 310	Introduction to Informatics	3	HSCI 312	Statistics for Evidence-Based Practice	3
HUMN FLEX	HUMN FLEX Course	3	HUMN FLEX	HUMN Flex Course	3
NURSB 315	Pathopharmacology II	2	NURSB 335	Medical Surgical Nursing III	4
NURSB 325	Medical Surgical Nursing II	4	NURSB 335L	Medical Surgical Nursing III Clinical/Lab/Simulation	2
NURSB 325L	Medical Surgical Nursing II	2	NURSB 340	Pediatric Nursing	2

	Clinical/Lab/Simulation				
NURSB 330	Obstetrics Nursing	2	NURSB 340L	Pediatric Nursing Clinical/Lab/Simulation	1
NURSB 330L	Obstetrics Nursing Clinical/Lab/Simulation	1			
TOTAL		17	TOTAL		15

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.

SENIOR

FALL			SPRING		
NURSB 404	Nursing Research	3	NURSB 465	Nursing Practicum II	2
NURSB 450	Nursing Practicum I	2	NURSB 465L	Nursing Practicum II Clinical/Lab/Simulation	4
NURSB 450L	Nursing Practicum I Clinical/Lab/Simulation	4	NURSB 470	Leadership and Health Policy	3
NURSB 455	Prevention and Population Health	3	NURSB 470L	Leadership and Health Policy Practicum	1
NURSB 455L	Prevention and Population Health Practicum	1	NURSB 475	NCLEX-RN Review	3
TOTAL		13	TOTAL		13

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.

NURSING RN-BSN
BACHELOR OF SCIENCE IN NURSING (NURSR)

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 Identify 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**

Course	Title	Credit Hours
BIOL 212	Introduction to Human Anatomy and Physiology	3
BIOL 212L	Introduction to Human Anatomy and Physiology Lab	1
COMM 101	Freshman Writing I	3
COMM 102	Freshman Writing II	3
PSYC 212	Life Span Development	3
SPCH 103	Oral Communications	3
	Electives	24

Health Sciences Courses **15 Credit Hours**

Course	Title	Credit Hours
HSCI 110	History of Health Sciences	3
HSCI 230	Interprofessional Collaboration	3

HSCI 302	Health Ethics and Policy	3
HSCI 310	Introduction to Health Informatics	3
HSCI 312	Statistics for Evidence Based Practice	3

Nursing Courses **15 Credit Hours**

Course	Title	Credit Hours
NURSR 302	Advanced Health Assessment for the RN	4
NURSR 402	Prevention and Population Health	4
NURSR 404	Nursing Research	3
NURSR 410	Leadership and Health Policy for the RN	4

DEPARTMENT OF HEALTH SCIENCES

Mindy Smith-Amburgey, Chair

EXERCISE SCIENCE MAJOR

Professor Jody Mashinter, Program Director

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 as 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

- Exercise Science focuses on the understanding and promotion of human movement and a healthy lifestyle.
- A 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 acquire the skills and knowledge 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 Learning 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-credit 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 Institutional 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

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
EXER 201 Training Concepts	3	UNIV 105 Character & Leadership	3
UNIV 104 Motivation & Success	3	SPCH 103*	3
COMM 101 Writing I	3	COMM 102 Writing II	3
Gen Ed	3	EXER 225 Medical Terminology	3
PSYC 101 Introduction to Psychology	3	PSYC 212 Life Span Development	3
MATH 1XX	3	Gen Ed	3
Total	18	Total	18
SOPHOMORE YEAR			
BIOL 171L Anatomy & Physiology I	3	BIOL 172L Anatomy & Phys II	3
BIOL 171L Anat & Phys I Lab	1	BIOL 172L Anat & Phys II Lab	1
EXER 113 Structural Kinesiology	3	EXER 252 Found. of Injury Mgmt	3
Gen Ed	3	EXER 275 Program Design & Implemen.	3
HSCI 110 History of Health Science	3	EXER 330 Special Populations	3
HSCI 204 Nutrition	3	Elective	3
Total	16	Total	16
JUNIOR YEAR			
EXER 325 Exercise Prescription	3	HSCI 312 Statistics	3
EXER 340 Ex & Psych Mindfulness	3	EXER 212 Exercise Science Practicum	3
HSCI 370 Physiology of Exercise	3	EXER 452 Organization & Admin	3
HSCI 302 Health Ethics & Policy		Elective	
Elective		Elective	
Total	15	Total	15
SENIOR YEAR			
HSCI 402 Research	3	EXER ***497/498 Internship	3/12
EXER 333 Pharm & Psych	3	EXER 304 Sports Nutrition	3
EXER 355 Motion Analysis	3	Elective	3
EXER 475 Senior Capstone	3	Elective	3
Total	12	Total	3/12
Total Credits in Program			122

*SPCH 103 is embedded in UNIV 105

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 before 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 AND CONDITIONING MINOR

The Strength & Conditioning minor at the University of Charleston will expand students' knowledge of performance enhancement through interdisciplinary coursework in Exercise Science.

Students completing the Strength & Conditioning minor can 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:

Strength & Conditioning Minor

The following courses are required:

EXER 201 Training Concepts	3
EXER 225 Medical Terminology in Exercise Science and Healthcare	3
EXER 275 Program Design & Implementation	3
HSCI 204 Nutrition	3
	12

Choose two (2) elective courses from the list below based on individual student goals for implementing this minor into their future career:

EXER 252 Foundations of Injury Management	3
EXER 304 Sports Nutrition	3
EXER 325 Exercise Prescription	3
EXER 330 Special Populations	3
EXER 340 Exercise & Psychological Mindfulness	3
Total	18

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.
- Eligibility for certifications through NCHEC as a Certified Health Education Specialist, or through the National Wellness Institute as a Certified Wellness Practitioner.
- Built in development of a minor with the HPRO program based on student long-term plans.
- Complementary array of interdisciplinary coursework in Natural Sciences, Exercise Science, 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 completing 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, Exercise 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 be able to:

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 120 credit hours that include a combination of major courses and related disciplines (80 credits), core courses (15 credits), and elective credit 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 or 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

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
UNIV 104 College Motivation & Success	3	V 105	3
COMM 101 Writing I	3	COMM 102 Writing II	3
HSCI 110 History of Health Sciences	3	SPCH 103 Oral Comm	3
HPRO 100 Introduction to Health Promotion	3	EXER 225 Medical Terminology	3
MATH 120/121 Math	3	ICOM 151 Intro to Human Communication	3
PSYC 101 Introduction to Psychology	3	PSYC 212 Lifespan & Development	3
TOTAL CREDITS	18		18
SOPHOMORE YEAR			
HSCI 204 Nutrition	3	EXER 252 Foundations of Injury Management	3
BIOL 171 Anatomy & Physiology I	3	EXER 330 Special Populations	3
BIOL 171L Anatomy & Physiology Lab I	1	BIOL 172 Anatomy & Physiology II	3
ICOM 225 Principles of Public Relations	3	BIOL 172L Anatomy & Physiology Lab II	1
HSCI 230 Interprofessional Practice & Collaboration	3	EXER 304 Sport Nutrition for the Health Professional	3
Minor Elective	3	Minor Elective	3
TOTAL CREDITS	16		16
JUNIOR YEAR			
HSCI 302 Health Ethics & Policy	3	EXER 452 Organization and Admin	3
HPRO/EXER 340 Exercise & Psychological Mindfulness	3	ICOM 305 Public Relations Campaigns OR	3

		ICOM 362 Public Relations Writing	
NSCI 220/PSYC 315/BUSI 317/HSCI 312 Statistics	3	HSCI 401 Health Leadership & Management	3
Minor Elective	3	POLS 280 Debating Political Issues	3
Minor Elective	3	HPRO 310 Public & Global Health	3
TOTAL CREDITS	15		15
SENIOR YEAR			
HPRO 475 Health Promotion Capstone	3	HPRO 498 Internship OR HPRO 497 Internship	12/3
HSCI 402 Research	3	Minor Elective	
Minor Elective	3		
Minor Elective	3		
Minor Elective	3		
Minor Elective	3		
TOTAL CREDITS	18		15/6

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.

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:

PLO 1: Graduates will practice effective communication skills

PLO 2: Graduates will employ critical thinking skills

PLO 3: Graduates will demonstrate entry-level clinical competence

PLO 4: Graduates will translate didactic work into application

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

- 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 63

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

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.

To be eligible for graduation a student must:

- Achieve a minimum “C” in all prerequisite and OTA didactic courses
- Complete a minimum of 63 combined academic and fieldwork credits
- Complete level I and level II fieldwork rotations as assigned, with a passing grade

Occupational Therapy Assistant Curriculum

First Year Fall		
BIOL 212	Human Anatomy & Physiology*	3
BIOL 212L	Human Anatomy & Physiology*	1
COMM 101	Freshman Writing I	3
PSYC 212	Lifespan Psychology	3
OTA 201	Introduction to Occupational Therapy**	3
	Total	13
First Year Spring		
COMM 102	Freshman Writing II	3
SSCI 105	Social Sciences	3
MATH 120	Mathematics	3
OTA 203	Clinical Kinesiology**	3
	Total	12
Second Year Fall		
OTA 202	Principles of Performance in OT	3
OTA 204	OT in Adult Physical Performance I	4
OTA 205	Level I Fieldwork I	1
OTA 208	OT in Psychosocial & Lab	3
OTA 209	Modalities and Methods for Occupational Therapy & Lab	3
	Total	14
Second Year Spring		
OTA 206	Level I Fieldwork II	1
OTA 207	OT in Adult Physical Performance II	4
OTA 210	Occupational Performance in Children	3
OTA 215	Occupational Performance in the Elderly	3
OTA 216	Capstone Seminar I	1
	Total	12
Second Year Summer		
OTA 211	Level II Fieldwork I	5
OTA 212	Level II Fieldwork II***	5
OTA 217	Capstone Seminar II	2
	Total	12

Total Program Credit Hours: 63

*or 8 Credit hours of Anatomy and Physiology I and II with lab

**OTA 201 and OTA 203 can be taken within the program requirement year.

***An additional semester may be added to the program year depending on fieldwork rotation

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)

6116 Executive Boulevard, Suite 200

North Bethesda, MD

20852- 4929

<http://www.acoteonline.org>

1-301-652-AOTA

RADIOLOGIC SCIENCE MAJOR

Bachelor of Science

Kristi Barnett, 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.artt.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.

- 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.
- Applicants must have a cumulative grade point average of 2.7 or higher on a 4.0 academic scale.
- 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 Kristi Barnett, (304) 357- 4971, E-mail: kristibarnett@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 institutional outcome 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 Institutional 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

MATH 120	Intermediate Algebra	3 credits
HSCI 201 &201L	Health Care Assessment (unless work experiences substitutes)	3 credits
HSCI 312	Statistics for Evidence Based Practice (or equivalent)	3 credits
RADI 302	Cross Section Anatomy (unless work experiences substitutes)	1 credit
RADI 320-323L	Professional Specialization/Lab (unless specialty reg.)	2-5 credits
HSCI 401	Health Leadership & Mgmt. (unless work experience substitute)	3 credits
HSCI 302	Health Ethics & Policy	3 credits
HSCI 402	Research I	3 credits
RADI 420-423L	Specialization Clinical Lab (unless work specialty reg.)	3 credits
Total		27 Credits
General Education and Electives as determined by the student's individual program evaluation		Up to 53 credits
Prior Credit for Associate Degree/Diploma – Decision of Program Chair*		Approx. 60 credits

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 additional credits. 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 Institutional Learning Outcomes are met.

Bachelor of Science Degree in Radiologic Science - 2020-2023 Curriculum*

FRESHMAN YEAR			
FALL SEMESTER		SPRING SEMESTER	
UNIV 104 College Motivation and Success	3	UNIV 105 Foundations of Character & Leadership	3
HUMN 1XX Humanities	3	RADI 102 Radiation Physics	3
RADI 101 Intro. To Radiologic Science	2	COMM 102 Freshman Writing II	3
BIOL 171 Fundamentals of Anatomy and Physiology	3	SPCH 103 Oral Communication Fundamentals	3
BIOL 171Lab Fundamentals of Anatomy and Physiology	1	BIOL 172 Fundamentals of Anatomy and Physiology II	3
COMM 101 Freshman Writing I	3	BIOL 172 Lab Fundamentals of Anatomy and Physiology II	1
Total:	15	Total:	16

SOPHOMORE YEAR			
FALL SEMESTER		SPRING SEMESTER	
PSYC 212 Life-Span Development	3	ENGL 2XX Literature	3
RADI 201 Radiographic Positioning I	3	RADI 211 Radiographic Positioning II	3
RADI 201L Clinical Lab I	3	RADI 211L Clinical Lab II	3
RADI 202 Osteology	3	RADI 212 Radiographic Exposure	3
MATH 120 Intermediate Algebra	3	HSCI 201 & 201L Health Care Assessment & Lab	3
Total:	15	Total:	15

JUNIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
RADI302 Cross Sectional Anatomy	1	RADI 304 Imaging Equipment	3
RADI 301 Radiological Positioning III	3	RADI 311L Clinical Lab IV / Pharmacology	6
RADI 301L Clinical Lab III	6	HSCI 312 Health Science Stats	3
RADI 311 Radiologic Pathology	2	RADI 498 Clinical Internship	1
RADI 320-324 Professional Specialization	3	HSCI 110 History of Health Sciences	3
Total:	15	Total:	16

SENIOR YEAR			
FALL SEMESTER		SPRING SEMESTER	
HSCI 402 Research I	3	RADI 410 Radiologic Science Senior Seminar	3
RADI 405 Radiation Biology	2	RADI 411L Clinical Lab VI	5
RADI 420-424L Specialization Lab	3	HSCI 401 Health Leadership & Management	3
RADI 401L Clinical Lab V	5	RADI 498 Clinical Internship	3
RADI 4XX Radiographic Digital Processing and Quality	3	Flex Elective	3
	Total: 16		Total: 17

**The curriculum is subject to change.*

**Grand total credits for graduation —125 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 additional 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:

A	92-100
B	85-91
C	84-84
D	75-79
F	< 75

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 16 hours of general studies credit and 47 hours of radiologic technology credits. Once pre-requisites are completed, students who are successful with all other program requirements may complete the degree in just 17 months. 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.

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

Program Summary	
Course Number	Credits
University Requirements	16
Program Requirements	47
Program Total	63

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 fully admitted into the program:

Freshmen Fall Semester (Prerequisites)		
Course Number	Course Title	Credits
MATH 120	Intermediate Algebra	3
BIOL 212	Intro.to Human Anatomy & Physiology	3
BIOL 212L	Intro.to Human Anatomy & Physiology Lab	1
RADT 101/ RADT 101L	Imaging Procedures I and Lab	4
RADT 107 / RADT 107L	Introduction to Radiology and Patient Care Laboratory	2
Total		13

Program Requirements/Sequence

Freshmen Spring Semester		
SSCI 105	Issues in Social Science	3
COMM 101	Freshmen Writing I	3
RADT 108	Radiologic Clinical I	2
RADT 111 / RADT 111L	Image Procedures II and Lab	4
RADT 115	Radiographic Physics I	3
RADT 125	Radiographic Physics II	3
Total		18
Freshmen Summer I		
RADT 118	Radiologic Clinical II	1
COMM 102	Freshman Writing II	3
Total		4

Freshmen Summer II		
Course Number	Course Title	Credits
RADT 128	Radiologic Clinical III	1
RADT 206	Quality Assurance	1
	Total	2
	Summer Total	6
Sophomore Fall Semester		
RADT 201 / 201L	Image Procedures III and Lab	4
RADT 203	Image Acquisition	3
RADT 204	Radiobiology / Radiation Protection	2
RADT 208	Radiologic Clinical IV	3
RADT 210	Radiologic Pharmacology and Drug Administration	2
	Total	13
Sophomore Spring Semester		
RADT 211	Imaging Procedures IV	3
RADT 217	Radiographic Pathology	2
RADT 218	Radiologic Clinical V	3
RADT 229	Advanced Imaging	1
RADT 230	Capstone Seminar	3
	Total	12

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.

HEALTH SCIENCE MINOR

HSCI 110	History of Health Science	3
HSCI 206	Health Communication	3
HSCI 230	Interprofessional Practice and Collaboration	3
HSCI 302	Health Ethics and Policy	3
HSCI 310	Health Informatics	3
HSCI 401	Health Leadership and Management	3
	Total Credits	18

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:

Medical Knowledge and Skills

Demonstrate the medical, behavioral, and social science knowledge and skills necessary to promote health, and effectively apply the principles of evidence-based medicine to recognize, assess, diagnose, and treat patients across the lifespan in the clinical practice of medicine.

Interpersonal and Communication Skills

Demonstrate and apply effective oral and written communication skills to accurately obtain, interpret, and utilize information to implement a patient-centered management plan in a culturally responsive manner.

Professionalism

Commit to continued professional growth and development, including the creation and maintenance of relationships that display respect, compassion, integrity, dependability, and accountability to patients and members of the healthcare team.

Patient Care

Provide compassionate, competent, and equitable patient-centered care while performing physical exams, ordering and/or interpreting diagnostic tests, and making informed decisions about diagnostic and therapeutic interventions based on patient preferences, current evidence, and clinical judgment.

Practice-Based Learning and Improvement

Engage in critical analysis of their practice experience and the medical literature for the purposes of practice- and self-improvement.

Systems-Based Practice

Examine their roles and responsibilities pertaining to systems-based practice, especially with regard to cost-containment, patient safety, medical error and quality, and risk management.

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:

- Traditional Admission
- PA Fast Track

Traditional Admission

Traditional 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 Traditional 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.

SCHOOL OF PHARMACY

Dr. Faruk Khan, Interim Dean

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 Institutional Learning Outcomes 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. UCSOP is fully accredited by ACPE. 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 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 and successfully complete, with a C- or above, the required prerequisite course work. Students with a GPA of less than 2.75 must take the Pharmacy College Admission Test (PCAT) within three years of the application. For students with a GPA OF 2.75 or above, the PCAT is optional. The Medical College Admission Test (MCAT), Dental Admission Test (DAT) or Graduate Records Examination (GRE) may be considered in lieu of the PCAT exam. Scores in the 50th percentile and above are considered competitive, although all applications are individually re viewed. 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 complete an interview with School of Pharmacy Faculty.

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 Enrollment and Admissions 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 Enrollment and Admissions 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 of 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.

Pre-Requisite Course	Credits	Comments
Math Requirements		
Calculus	3	
Statistics	2	
Science Requirements		

General Biology with lab	8	
Human Anatomy & Physiology*	8	See asterisk below.
Microbiology with lab	4	
General Chemistry with lab	8	
Organic Chemistry with lab	8	
Social Science Requirements		
Economics	3	Microeconomics or Macroeconomics
English Composition	6	
History or Political Science	3	
Psychology or Sociology	3	

*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 2020-2021 academic year are \$34,610 (tuition = \$33,260 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, North Carolina, Tennessee and Washington, D.C., will automatically receive the regional scholarship when they attend UCSOP. Students who complete the majority of their pre-pharmacy coursework at UC will automatically qualify for the scholarship, which provides a \$4,750 discount each year for 4 years of school. Merit-based scholarships are available for non-regional students. 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*. 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 within the School of Pharmacy should expect to be actively engaged with on- campus curricular requirements from 8AM – 5PM as a result of classroom, laboratory coursework, and team/group-based assignments with additional requirements possible. Additional time may be required to complete the experiential portion of the program (introductory and advanced pharmacy practice experiences) and for out of class assessment.

Students need to provide the appropriate time necessary outside of scheduled academic meeting times to prepare for on-campus and off- campus curricular responsibilities. School-wide convocations that are announced by the Dean’s office are also required. Documentation of active engagement through an ePortfolio is also a programmatic requirement for all UCSOP students.

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 professional 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 Executive 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 CORE Experiential Learning Management Site Document library).

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. Some of the noncredit requirements include the Top 200 Drugs quizzes during the P1, P2 and P3 years, e-Portfolio requirements throughout each year of pharmacy school, and the fourth year longitudinal NAPLEX/MPJE Board Preparation graduation requirements. 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 is determined by the School of Pharmacy Office of Academic Affairs. The Associate Dean for Academic Affairs (ADAA) considers course grades, progression test/end of year assessments and the timely advancement toward program requirements utilizing the Advancement Policy, Course Failure Policy, Annual Progression, Academic Probation, Academic Dismissal and other pertinent policies as published in the *School of Pharmacy Student Handbook*. 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 ADAA. 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. According to the Course Failure Policy, certain courses qualify for remediation in order to keep students progressing through the program. The maximum grade that may be earned via remediated courses is a grade of “C.” P1, P2, and P3 students are assessed at the end of each academic year using both written and hands on/OSCE testing to determine progression to the next academic year. The Progression Testing and End of Year Assessment Remediation Policy is located in the *School of Pharmacy Student Handbook*. As previously noted, the specific policy requirements for course failure/remediation, student advancement, academic probation, and student dismissal can also 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 (ADAA) notifies each student placed on academic probation; and furthermore, makes notification of current academic deficiencies or changes in status within the pharmacy program to the student and their academic advisor.

Any student in the School has the opportunity to appeal a decision made by the ADAA. 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, per the *School of Pharmacy Student Handbook*.

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 (such as longitudinal NAPLEX/MPJE Board Preparation graduation requirement, Top 200 Drug quizzes and ePortfolio) 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. Any course remediated (rather than repeated) will be awarded a grade no higher than "C" which will replace the original grade in the course, per the UCSOP Course Failure Policy found in the *School of Pharmacy Student Handbook*.

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. It is the student's responsibility to obtain and keep current, active Intern Licensure while enrolled at UCSOP. 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 advisor, 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.

PHARMD/MBA 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.

MBA Program Learning Outcomes

At the conclusion of the MBA program, the graduate will be able to:

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.

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 likely realize additional career opportunities upon graduation.

Program Structure

The eleven core courses in the MBA program are in seven-week sessions and are three credit hours each. Students must have completed at least six core courses to take the strategy course, and generally the strategy course should be taken during the 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 it 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 module.

Academic Progression

Students are expected to maintain a cumulative GPA of 3.0 or higher in the MBA program. 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 not returning to a 3.0 GPA in two semesters may be dismissed from the program. Students must achieve a cumulative GPA of 3.0 by the end of the program or remediation will be required. 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.

If a student in the joint PharmD/MBA program experiences academic difficulty in the Doctor of Pharmacy program, evidenced by a GPA below 2.75, he/she will receive a warning letter and will be required to meet with the UCSOP Associate Dean of Academic Affairs. If the student has a second semester of pharmacy GPA less than 2.75, then they will be required to withdraw from the MBA program unless solid documentation of uncontrolled circumstances leading to the second semester of academic difficulties is provided.

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, three years of 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. Tamer Fandy) and the MBA Program Director (Dr. Rick Ferris) BEFORE withdrawing.

Disclosures

Although the MBA program allows students the opportunity to complete the requirements online and/or in-seat with the international practicum as an optional activity, pharmacy students should be aware that they will be required to complete the program online/asynchronously due primarily to IPPE 3 and APPE logistical scheduling requirements. Experiential Education requirements, schedules, and activities/expectations will NOT be rescheduled and/or excused due to MBA program requirements. 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. Additional fees related to graduation and travel (if international practicum option is elected) may apply.

MBA Core Courses: (24 credit hours) + (9 concentration hours) = 33 credit hours

MBA 671. Management & Organizational Behavior	3 credits
MBA 672. Managerial Accounting & Finance	3 credits

MBA 673. Applied Marketing	3 credits
MBA 674. Quantitative Methods	3 credits
MBA 675. International Business & Trade	3 credits
MBA 676. Managerial Economics	3 credits
MBA 677. Managerial Finance	3 credits
MBA 628. Strategic Decision Making	3 credits

Select concentration requires 3 x 3 credit hour concentration courses, which are dually credited as electives within the Pharm.D. program when healthcare-related concentration is selected.

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 that allows student pharmacists to select online or in-seat one night per week classes for seven-week terms.

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.

PharmD/MBA Program Admissions Process & Criteria

1. Applicants must be a full-time P1 student at UCSOP in good standing with a demonstrated ability to successfully manage multiple graduate-level courses concurrently. The following recommended criteria will be considered:
 - a) Ability to maintain cumulative pharmacy GPA of 2.75 or above at the end of each semester of the P1 year
 - b) In accordance with our holistic admissions process, additional information from your PharmCAS application may be considered by the committee
 - c) Student demonstrates positive academic and professional integrity, as evidenced by no documented violations of the UCSOP Student Code of Conduct and verified by recommendation of the Dean of the School of Pharmacy.

2. MBA Application must be completed online through the MBA program website.
3. Evaluation of good academic/professional standing from the Dean of the UCSOP will be incorporated into the evaluation process. No separate letter of recommendation is required.
4. Graduate and undergraduate transcripts will be evaluated (housed with UCSOP, no need to request separate transcripts).
5. Submit a current Curriculum Vitae.
6. A bachelor's degree from a regionally accredited institution (waived for qualified PharmD students).
7. At least three years of professional work experience. UC PharmD students satisfy this requirement through Introductory Pharmacy Practice Experience (IPPE) and Advanced Pharmacy Practice Experience (APPE).
8. 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 McGraw-Hill Short Course the summer prior to starting MBA coursework.

All application materials must be submitted to pharmacy@ucwv.edu no later than April 1 of each year.

Application Review Process

1. 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 Executive Director of Enrollment & Admissions, and the UCSOP PharmD/MBA Program Liaison and Department of Pharmaceutical and Administrative Sciences Chair.
2. The PharmD/MBA Review Committee conducts the initial application review and makes recommendations to the Dean of the UCSOP.
3. The Dean of the UCSOP will recommend eligible candidates to the MBA Program Director.
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 on or before May 15 of each year by the MBA Program Director.

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 populations

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.

UNDERGRADUATE COURSE LISTINGS

ACCOUNTING (ACCT)

ACCT 201. Principles of Accounting **3 credits**

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 **3 credits**

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 **3 credits**

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 odd-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.

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 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 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 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 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 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.

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, 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, 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, immune 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 Lab1 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, immune 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: BIOL212.

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 credits**

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. C0-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 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**3 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. Offered on demand. Prerequisites: BIOL 130, NSCI 220, BIOL 215. Corequisite BIOL 413 lab

BIOL 413 Systematic Botany Lab**1 credit**

Laboratory includes field trips to local areas, collection and preservation of botanical specimens. Laboratory fee: \$50 Corequisite BIOL 413

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 10X Introduction to Business Analytics **3 Credits**

The Introduction to Business Analytics course will cover topics related to big data – volume, velocity, veracity and variance, review of tools and techniques, business applications and industry demand. Students will gain a clear overview of the business analytics domain.

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 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 31X Big Data Analytics **3 Credits**

The Big Data Analytics course will provide students with the knowledge and skills, including industry level tool exposure, required for acquiring, cleaning, processing and managing structured and unstructured data.

BUSI 32X Predictive Modelling for Business Analytics **3 Credits**

The Predictive Modelling for Business Analytics course will provide students with the knowledge and skills, including industry level tool exposure, required for developing predictive models with diverse data.

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 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 41X Business Analytics Capstone **3 credits**

The Business Analytics Capstone will provide students with an opportunity to conduct research on personalized academic and industry data driven big data initiatives.

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 47X Machine Learning **3 Credits**

The Machine Learning course will teach students to the concepts of statistical learning, optimization, feature selection, training and testing classification models, supervised and unsupervised Machine Learning techniques and associated visualization and interpretation from business domains perspectives.

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.

CHEMISTRY (CHEM)**CHEM 100. Introductory Chemistry****4 credits**

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**4 credits**

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 530 or CHEM-100. Laboratory fee \$50. Taught each fall and summer.

CHEM 102. General Chemistry II**4 credits**

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-minute 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 biosynthesis 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 412. Physical Chemistry I **3 credits**

A study of the properties of matter, thermodynamics, thermochemistry, chemical equilibria, chemical reactions and solutions. Prerequisites: CHEM 202, PHSC 202, and MATH 201. Taught fall semester.

CHEM 413. Physical Chemistry II**3 credits**

A study of chemical kinetics, quantum theory, molecular spectroscopy and its applications to atoms and molecules, and statistical mechanics. Prerequisites: MATH 201. 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 100- Introduction to Applied Computer Science **3 credits**
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. Pre-requisite: None.

COSC 110 Computer Science I **3 credits**
An Introductory programming course, using a modern language 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. Pre-requisite MATH 121 or ACT Math score of 24 or better or Department Consent; Co-requisites: COSC 110L

COSC 110L Computer Science I **1 credits**
This is the companion laboratory for COSC 110. Co-requisites: COSC 110

COSC 120 Computer Science 2 **3 credits**
A continuation of COSC 110 with Object Oriented Programming principles and techniques emphasized. Topics include: file IO, Arrays and their applications, abstract data types, classes, Inheritance and composition. Prerequisite: COSC 120; Co-requisites: COSC 120L

COSC 120L Computer Science 2 LAB **1 credits**
This is the companion laboratory for COSC 120. Prerequisite: COSC 110 & COSC 110L; Co-requisites: COSC 120

COSC 220 Assembly Language **3 credits**
The study of a common assembly language found in modern computers including the instruction set, pseudo-operations, macros, and conditional assembly, object code, use of dumps, coding and linkage conventions, addressing techniques, and use of the assembler. Assignments will require designing, coding, debugging, and executing programs as an integral part of the course. Co-requisite: COSC 120.

COSC 230 Linux**3 credits**

Fundamental concepts of Linux operating systems. Topics include the Linux file system, commands, utilities, text editing, shell programming and text processing utilities. Assignments will include programming projects designed, compiled, and executed in the Linux environment. Prerequisite: COSC 120.

COSC 240 Digital Logic**3 credits**

Foundations of digital systems. Topics include number systems, Boolean and switching algebra, logic minimization, analysis and design of combinational and sequential logic circuits. Department Consent, Co-requisites: COSC 240L

COSC 240L Digital Logic Lab**1 credits**

This is the companion laboratory for COSC 240. Co-requisites: COSC 240

COSC 250 - Computer Architecture and Organization**3 credits**

A study of the functional organization of digital computers. Fundamental principles of control and data path units, program counter, ALU, multiplexers, registers, and memory. Introduction to assemblers, linkers, and loaders. Programming with assembly language. Prerequisites: COSC 240

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 120

COSC 310- 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 120.

COSC 315- 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 325 Computer Scripting**3 credits**

Introduction the scripting languages used in server administration and security purposes. Introductory level programming will be covered using scripting languages such as JavaScript, VBScript, Windows Shell Script, and Perl. Prerequisite: COSC 120.

COSC 330 Embedded Systems**3 credits**

Design and implementation of small embedded microcomputer based systems. Examination of peripheral control registers, firmware development in C or Python language. Peripherals including serial, parallel, timers, simple LoRa, and interrupts. Design of basic interface circuitry. A course hardware/firmware project will be required. Prerequisite: COSC 240

- COSC 340 – Operating Systems** **3 credits**
 Computer system software organization; operating system concepts including processes, threads, memory management, inter process communications, and virtual machines.
 Prerequisite: COSC 280
- COSC 345 - Computer Networks** **3 credits**
 Computer network analysis and design. Fundamentals of data communications: media, transmission, encoding, error detection and handling, link control, packet switching. Network architecture and topology. Network, Transport, and Application layer protocols, services, design issues and performance. Programming assignments using TCP/IP.
 Prerequisite: COSC 120.
- COSC 350 Special Topics** **1-4 credits**
 Introduction of topics not covered in regularly scheduled courses .Department consent
- 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 360- Web Application Development** **3 credits**
 Website development emphasizing presentation layer with client side and server side technologies. Topics covered include scripting languages, cloud services, server-side programming. Prerequisite: COSC 280.
- COSC 390 CS Workshop 1** **1 credits**
 This is a one hour internal based internship that allow students to develop skill sets in the IT area. Students will be assigned work based projects in the DACS department, IT group, or special institutional projects. Prerequisite: Junior Status or Instructor Consent.
- COSC 391 CS Workshop 2** **1 credits**
 A continuation of COSC 390. Prerequisite: Junior Status or Instructor Consent.
- COSC 395 Cyber Workshop 1** **1 credits**
 This is a one hour internal based internship that allow students to develop skill sets in the IT area. Students will be assigned work based projects in the DACS department, IT group, or special institutional projects. Prerequisite: Junior Status or Instructor Consent.
- COSC 396 Cyber Workshop 2** **1 credits**
 A continuation of COSC 395. Prerequisite: Junior Status or Instructor Consent.
- COSC 420 Advanced Computer Science Math** **3 credits**
 Numerical methods, statistical computing techniques, data smoothing and filtering. Emphasis will be placed on design and implementation. Students will utilize software packages such as MatLab, SciLab, or Python. Prerequisite: Math 230 & Math 240.
- COSC 440 – Co-op Experience** **10-12 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 445- 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.

COSC 460 Secure Code **3 credits**
Explores qualities that make software susceptible to attacks. Techniques for writing secure applications are covered in detail. Students will be engaged in multiple short programming assignments for demonstration and testing of secure techniques. Prerequisite: COSC 340.

COSC 470 Computer Forensics **3 credits**
Fundamental concepts in forensics and security control. Review of essential knowledge and skills necessary for digital forensic auditors including the examination of commonly accepted methods and tools. Underlying principles of assurance of the integrity, confidentiality and availability of information assets will be introduced to the student. Prerequisite: COSC 340.

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 100. Introduction to Computers **3 credits.**

This course provides students with the ability to utilize and implement computer hardware and software into their cyber security and information technology endeavors. Students will analyze the principles of building, repairing, upgrading, and the common operating system principles of computers. The course will also emphasize the need for proper recording of documentation needed when working and making changes to a computer. Students will learn the integration, troubleshooting, and maintenance techniques of combining hardware and software. This also includes how the hardware is relevant towards the operation of computer's operating system. The importance of safety, privacy, and professionalism needed when working with computers and the individual that operate them.

CYBR 110. Introduction to Networking **3 credits.**

This course provides students with the ability to utilize and implement computer networking into their cyber security and information technology endeavors. Students will analyze the principles of the OSI model, protocols, hardware, device configuration, management, security, and troubleshooting methods of networking. The course will also emphasize the need for proper recording of documentation needed when working and making changes to an organization's network. Students will explore and critically examine networks and the network's functions. Students will obtain the importance of safety, privacy, and professionalism needed when working with networks.

CYBR 120. Introduction to Security **3 credits.**

This course provides students with the ability to utilize and implement computer and network security into their cyber security and information technology endeavors. Students will analyze the principles of the threats, policies, penetration testing, Bring Your Own Device (BYOD) security, security architecture, securing data, and troubleshooting methods of computer and networking security. The course will also emphasize the need for proper recording of documentation needed when working and making changes to enhance an organization's network. Students will obtain the importance of safety, privacy, and professionalism needed when working with computers and networks and the individuals that adhere towards the need of its security.

CYBR 310. Cybersecurity Strategy **3 credits.**

This course is designed to cover the strategic, operational, and tactical aspects of the conflicts in cyberspace today. This course will provide a valuable resource to those involved in cyber warfare activities regardless of whether their focus is policy maker, CEO, CISO, doctrinal development, penetration testers, security professionals, network and systems administrators, or college instructors. The information provided on cyber tactics and attacks can also be used to assist in engineering better and more efficient procedures and technical defenses.

CYBR 320. Ethical Hacking & Countermeasures **3 credits.**

The Certified Ethical Hacker program is the pinnacle of the most desired information security training program any information security professional will ever want to be in. To master the hacking technologies, you will need to become one, but an ethical one! The accredited course provides the advanced hacking tools and techniques used by hackers and information security professionals alike to break into an organization. As we put it, "To beat a hacker, you need to think like a hacker". This course will immerse you into the Hacker Mindset so that you will be able to

defend against future attacks. The security mindset in any organization must not be limited to the silos of a certain vendor, technologies or pieces of equipment.

CYBR 330. Incident Handler

3 credits.

The Incident Handler program 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. After attending the course, they will be able to create incident handling and response policies and deal with various types of computer security incidents.

CYBR 340. Security Analysis

3 credits.

The Security Analyst training program is an information security training class designed to enable Security Professionals the advanced uses of the available methodologies, tools and techniques expected from a premier vulnerability assessment training and are required to perform comprehensive information security pen tests. Students will learn how to design, secure and test networks to protect any organization from the threat hackers and crackers pose. By enabling the Penetration Tester methodology and groundbreaking techniques for security and penetration testing, this will help you perform the intensive assessments required to effectively identify and mitigate risks to the security of organization's infrastructure. As students learn to identify security problems in this vulnerability assessment training certification course, they also learn how to avoid and eliminate them, with the class providing complete coverage of analysis and network security-testing topics.

CYBR 410. Certified Information Systems Security Professional – Phase I 3 credits.

The CISSP course helps individuals who have the ability, knowledge, and experience to implement solid security practices, perform risk analysis, identify necessary countermeasures, and help the organization protect its facility, network, systems, and information. The CISSP course also provides security professionals with the credential that represents the skill set they want to offer to employers. Today, a greater demand is put on security as an integral part of corporate success. This, in turn, increases the demand for highly skilled security professionals. This course, broken down into a phase 1 and subsequent phase 2 course, is aligned to the eight (8) domains of Information System Security Certification Consortium (ISC2).

CYBR 415 Certified Information Systems Security Professional – Phase II 3

credits. This is Part II of The CISSP course helps individuals who have the ability, knowledge, and experience to implement solid security practices, perform risk analysis, identify necessary countermeasures, and help the organization protect its facility, network, systems, and information. The CISSP course also provides security professionals with the credential that represents the skill set they want to offer to employers. Today, a greater demand is put on security as an integral part of corporate success. This, in turn, increases the demand for highly skilled security professionals. This course, broken down into a phase 1 and subsequent phase 2 course, is aligned to the eight (8) domains of Information System Security Certification Consortium (ISC2). The course contained, here-in, is the second phase. Prerequisite: CYBR 410.

CYBR 440. Advanced Security Trends

3

credits. This course provides students with the ability to explore and examine emerging trends and technology in cyber security. Students will analyze organizations and review the feasibility of adopting new cyber security policies to provide competitive advantages in the workplace. This course also evaluates how policies and procedures continue to evolve as technology workplace data security requirements change.

CYBR 450. Cybersecurity Capstone

3

credits. The cyber capstone course aims to give students hands-on experience, building on what they have learned during the specialization courses. The task of the Capstone is to design and build a secure system and expose weaknesses in systems built by other teams. The capstone follows the format of the Build-it Break-it Fix-it security contest. The Build it -Break it -Fix it security contest aims to teach students to write more secure programs. The contest evaluates participants' abilities to develop secure and efficient programs. The contest is broken up into three rounds. During the Build It round, builders write software that implements the system prescribed by the contest. In the Break It round, breakers find as many flaws as possible in the Build It implementations submitted by other teams. During the Fix It round, builders attempt to fix any problems in their Build It submissions that were identified by other breaker teams. Students are also supposed to submit a comprehensive case study pertaining to current IT cyber security policy. Participating in the course gives learners the chance to be part of research on understanding how to better build secure software. Prerequisite: CYBR 415

DATA SCIENCE (DASC)

DASC 100 Introduction to Scientific Programming

3 credits

An introductory programming course designed primarily for computational and data sciences majors and business analytics where students learn how to use programming principles to solve numerical and scientific problems. Co-requisite: MATH 120 or ACT Math score of 21.

DASC 101 Introduction to Data Science

3 credits

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: none.

DASC 200 Data Mining

3 credits

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: DASC 101, STAT 101

DASC 250 Data Visualization

3 credits

The study of the basic principles of presenting (visual format) data in multiple ways from any source with applications in multiple disciplines. Prerequisites: DASC 101, STAT 101

DASC 310 Machine Learning **3 credits**

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: MATH 240

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: MATH 240

DASC 350 Special Topics **1-4 credits**

Introduction of topics not covered in regularly scheduled courses . Prerequisites: Department consent.

DASC 375 Natural Language Processing **3 credits**

The course provides fundamental 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: DASC 101

DASC 450 Internship **3 credits**

Content vary based on student's background and needs. Prerequisites: Senior status or instructor consent .

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 status or instructor consent

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. HUMN Flex. Prerequisites: None

DMDS 201 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. HUMN Flex. Prerequisites: None

DMDS 202 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. HUMN Flex. Prerequisites: None

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. HUMN Flex. Prerequisites: None

DMDS 301 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. Prerequisites: DMDS 201 and DMDS 202.

DMDS 302 (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. Prerequisites: DMDS 202

DMDS 310 (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 201.

DMDS 311 (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 201, DMDS 202, or consent of the Instructor

DMDS 312 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 202, DMDS 302.

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 310, DMDS 311, DMDS 312 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**

ECONOMICS (ECON)

ECON 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)

ECON 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)

ECON 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.

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**3 credits**

This course focuses on preschool and elementary instructional strategies that emphasized 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.

ENGL 203. British Literature Survey: Romantics to 20th Century **3 credits**

A survey of major authors, themes, and genres of British literature of the nineteenth and twentieth centuries, beginning with the Romantic poets. Themes include class, race, and post-colonial issues. The course includes female authors.

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.

- 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.
- ENGL 230. Western World Literature** **3 credits**
A survey of the major works of the Western literary tradition, including Homer, Ovid, and Dante. The course focuses on the development of poetry, drama, epic, and short fiction through the early twentieth century.
- 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.
- ENGL 302. Literary Criticism** **3 credits**
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.
- 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.
- 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's life and works. Students will develop close reading skills, analyzing language and themes in specific plays.
- ENGL 315. Linguistics** **3 credits**
An introduction to the field of Linguistics with particular attention given to the history of the English language, dialect analysis, and an analysis of how language structures meaning in society
- ENGL 320. Multi-ethnic Literature** **3 credits**
An in-depth study of the fiction and poetry of minority writers of the United States, including Asian-American, Native-American, African-American, Hispanic, Jewish-American, and gay and lesbian writers.
- ENGL 326. Literature and Gender** **3 credits**
Focuses on women writers or images of women in literature. 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.

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.

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 the language of the written text are adapted, changed, or reworked to reflect certain social, political, or economic contexts.

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.

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, argument, compare/contrast, 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.

ENGL 350. Special Topics **3 credits**
An in-depth study of a literary movement, writer, theme, or genre of current or special interest.

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, aspects of race, class, and gender, and the cultural impact of the series.

ENGL 361. The Eagle **1 credits**
This course is a practicum course that is centered on students creating the school newspaper, 'The Eagle.' Students work on writing and 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.

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 225. Medical Terminology in Exercise Science and Healthcare **3 credits**
This course emphasizes etymology, definition, pronunciation and correct utilization of medical terms, enabling the student to develop a vocabulary essential to the understanding of and communication within the various health areas in which allied health professionals will serve.

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 304. Sports Nutrition**3 credits**

This course is designed to study nutrition as it specifically relates to physical and sport performance. This course examines the evidence-based nutritional needs and use of fuels for various types of physical activity, from review of body composition, energy balance, and roles specific nutrients to evaluation of nutritional claims and performance enhancing products.

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**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 340. Exercise & Psychological Mindfulness**3 credits.**

This course is to promote greater awareness, understanding, and ownership of the multiple dimensions of mindfulness and well-being. It provides students with a holistic and dynamic approach to understanding self in order to then provide more mindful services to clients in the healthcare or physical fitness realms. Through dialog, experiential activities, and reflection, students explore theory and practice while encompassing mental, emotional, physical, spiritual, environmental, social, and vocational issues.

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 to 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 required courses in the Financial Planning Major 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 required courses in the Financial Planning Major that prepares students desiring to take the CFP® Certification examination. (offered fall of odd-numbered years)

FINA 310X. Client Communication and Counseling This course prepares future financial planners and other finance professionals to effectively interact with clients and the public. The course explores and applies theories and proven techniques to help professionals communicate financial information and address individuals' financial difficulties. (offered fall of even-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 includes an applied study of security behavior and simulated securities trading. This is one of the required courses in the Financial Planning Major 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. Prerequisite: FINA 205 or consent of instructor. (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 415. 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 the required courses in the Financial Planning Major that prepares students desiring to take the CFP® Certification examination. (offered fall of even-numbered years)

FINA 420. 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 the required courses in the Financial Planning Major 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 3 credits

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**3 credits**

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 101-102. Honors Seminar****2credits**

In this course, Honors College students explore career goals and develop professional skills beyond those presented in UNIV 104 and 105. Students are presented the opportunity to enhance intellectual engagement and participate in integrative multidisciplinary activities in both traditional and adaptive learning environments,

HEALTH PROMOTION (HPRO)**HPRO 100. Introduction to Health Promotions****3 credits**

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 310. Public & Global Health**3credits**

The purpose of this course is to introduce students to critical global health issues and ways to address or solve them. The curriculum focuses on the following global and public health topics: socioeconomic and environmental determinants of health, HIV/AIDS, common infectious diseases, cancer, reproductive health, and mental health. The course also looks at what we can do as a society to promote health through the ages.

HPRO 340. Exercise & Psychological Mindfulness**3credits**

This course is designed to promote greater awareness, understanding and ownership of the multiple dimensions of mindfulness and well-being. It provides students with a holistic and dynamic approach to understanding self in order to then provide more mindful services to clients in the healthcare or physical fitness realms. Through dialog, experiential activities, and reflection, students explore theory and practice while encompassing mental, emotional, physical, spiritual, environmental, social, and vocational issues.

HPRO 475. Health Promotion Capstone**3 credits**

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**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.

HPRO 498. Internship in Health Promotion**12 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.

HEALTH SCIENCES (HSCI)

HSCI 110. History of Health Science **3 credits**

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 **1 credit**

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 **2 credits**

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 **1 credit**

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 **3 credits**

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 **3 credits**

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 212 Drug and Dosage Calculation **3 credits**

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 230. Interprofessional Practice and Collaboration **3 credits**

This course provides knowledge regarding teamwork across the different health care disciplines. Students will develop an understanding of different members of the health care team and how those members collaborate to form an efficient team that improves client outcomes. 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 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 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 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 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 530 or higher).

MATH 123. Pre-calculus **4 credits**
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 580 or higher).

MATH 201. Calculus I **4 credits**
An introductory course dealing with limits, derivatives, anti-derivatives, and their applications. Prerequisite: C or better in MATH 123 or Math ACT score of 27 or higher (Math SAT of 640 or higher)

MATH 202. Calculus II **4 credits**
This course covers 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 **4 credits**
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 **3 credits**
This course covers basic proof techniques, counting, graphs, trees, relations, analysis of algorithms; and recursion. Prerequisites: COSC 102 and MATH 201.

MATH 230. Linear Algebra **3 credits**
This 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 240 Probability and Statics **3 credits**
This course covers the definition and elementary properties of probability, random variables, expectation, distributions, estimation, hypothesis testing, and linear regression. Prerequisite: Math 225.

MATH 324. Fundamentals of Mathematics Instruction **3 credits**
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 **3 credits**
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. Small Business Management** **3 credits**
 A study of how to effectively create, manage, and analyze a business plan and how to start, manage, grow, and harvest a 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** **3 credits**
 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 343. Sales Management** **3 credits**
 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: MGMT 311 and MRKT 321.
- 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 372X. Leadership & Organizational Change** **3 credits**
 Explores leadership concepts and theories and practice to examine such topics as strengthening emotional intelligence, motivating people to achieve strong results, managing conflict, leading change, aligning teams, and eliciting support from colleagues. Increases leadership capacities by providing opportunities to apply theory to develop leadership skills, conduct a self-reflection of personal experiences, and develop a personal philosophy of leadership. Prerequisite: MGMT 311.
- MGMT 416X. Managing Individuals & Teams** **3 credits**
 Examines principles of building highly effective teams by analyzing the variety of interrelated practices underlying group dynamics. Combines learning through hands-on

situations and experiences in a team-based exercise. Emphasis is placed on critical theories, concepts, and framework used by successful managers to diagnose team performance and the threats and opportunities teams face. Prerequisite: 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. Logistics & Supply 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: MGMT 311 and BUSI 316 or equivalent.

MGMT 498. Management Internship **3 credits**

The management internship provides students an opportunity to apply knowledge and skills acquired in the classroom to a real-world business setting and to gain professional skills and experiences necessary to prepare for a successful career in management. The experience allows students to explore career interests and build professional networks. Prerequisite: BUSI 215, BUSI 241, and 90 credit hours or approval of an advisor.

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.

MRKT 371. E-Marketing **3 credits**

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.

MRKT 401. Advertising **3 credits**

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.

MRKT 402. Marketing Research**3 credits**

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.

MILITARY SCIENCE (MSCI)**OFFERED IN COOPERATION WITH WV STATE UNIVERSITY****MSCI 101. Introduction to Military Science****2 credits**

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.

MSCI 102. Introduction to Leadership**2 credits**

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.

MSCI 103. Military Leadership Laboratory**1 credit**

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.

MSCI 104. Military Leadership Laboratory II**1 credit**

Continuation of MSCI 103.

MSCI 203. Military Leadership Laboratory III**1 credit**

Continuation of MSCI 104.

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.

MULTIDISCIPLINARY STUDIES (MTDS)

- MTDS 440. Multidisciplinary Studies Capstone** **3 credits.**
 The Multidisciplinary Studies Program (MTDS) requires the student, in a single original project, subject to the Program Director's approval, to produce a final project that synthesizes the students three Minor study areas. The most common way of completing this course is the writing of a research thesis, alternate projects can be explored in consultation with the instructor of the course. The final project should demonstrate advanced understanding of the relevant subject areas.

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: COMM 102.

MUSC 324. Concert Choir **1 credit**

The Concert Choir is the principle choral 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 Science Technology, or Math (STEM) flex course options. The objectives of NSCI 117 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 course is available in-seat or on line.

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 and the Environment**3 credits**

Issues in Medicine and the Environment provides an exploration of ethical principles and their application to moral and social problems confronting the practice of medicine and the environment 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 environmental matters associated with exposure, conservancy and siting disputes. Issues in Medicine and the Environment includes an optional 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.

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 content and make connections with content and application in regard to safe, competent care of the patient. Co-Requisite: NURSA 101L, NURSA 204, 204L, HSCI 105

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.

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, NURSB 204, 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: NURSB455.

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**3 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, as well as the importance of remaining an active and engaged member of both the national and state OT associations. Ethical decision making will be explored, along with introduction of promoting OT to the various payer sources. We will discuss and define theory development and its importance to Occupational Therapy. Professional behaviors including presentations, communication, and documentation will be emphasized. OT professional language will also be introduced. Prerequisite: This course is offered as a prerequisite course for the OTA program, but may be taken within the program year.

OTA 202. Principles of Performance in Occupational Therapy

3 credits

This course will introduce the Occupational Therapy Practice Framework (OTPF). The OTPF is the basis of the occupational therapy profession, providing an introduction into OT specific language and the activity analysis process. Within principles of performance, the Occupational Therapy Practice Framework and activity analysis are utilized to understand the occupational therapy client centered outlook and unique perspective. Prerequisite: OTA program admission. Corequisites: OTA 201, OTA 204, OTA 205, OTA 208, OTA 209

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. Prerequisites: This course is offered as a prerequisite to the OTA program, but may be taken within the program year.

OTA 204. Occupational Therapy in Adult Physical Performance and Lab I 4 credits

Students will be introduced to 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. Splinting techniques are demonstrated. Students continue to learn to grade activities. Documentation and professional behaviors are also stressed. Prerequisite: OTA program admission. Co requisite: OTA 201, OTA 202, OTA 205, OTA 208, OTA 209

OTA 205. Level 1 Fieldwork I 1 credit

This is the first fieldwork experience for the OTA student. The student will be assigned simulation case studies that correlate with specific courses and age groups taken during the spring semester. The focus of these activities will include screening, assessment, and intervention of /for ADL's, Environmental Accessibility and Modification, Orthotics and Prosthetics, Sensory, Vision, and Social, Play and Leisure while interacting with virtual clients, family members, and professionals. Level 1 fieldwork will encourage development of professional behaviors and opportunities to practice clinical skills in a safe, nonthreatening environment and is intended to build knowledge and professional judgment by providing students with immediate feedback on clinical scenarios. Students will be required to complete assignments within each case study and a de-briefing to promote the development of clinical reasoning skills through reflective learning processes. Prerequisites: OTA program admission. Co-requisites: 201, 202, 204, 208, 209

OTA 206. Level 1 Fieldwork II 1 credit

This is the second fieldwork experience for the OTA student. The student will be assigned simulation case studies that correlate with specific courses and age groups taken during the spring semester. The focus of these activities will include screening, assessment, and intervention of /for ADL's, Environmental Accessibility and Modification, Orthotics and Prosthetics, Sensory, Vision, and Social, Play and Leisure while interacting with virtual clients, family members, and professionals. Level 1 fieldwork will encourage development of professional behaviors and opportunities to practice clinical skills in a safe, nonthreatening environment and is intended to build knowledge and professional judgment by providing students with immediate feedback on clinical scenarios. Students will be required to complete assignments within each case study and a de-briefing to promote the development of clinical reasoning skills through reflective learning processes. Prerequisites: Successful completion of all fall OTA courses. Corequisites: 203, 207, 210, 215, 216

OTA 207. Occupational Therapy in Adult Physical Performance and Lab II 4 credits

A continuation of OTA 204, this course presents additional diagnosis of medical, neurological, orthopedic, and multisystem conditions treated in occupational therapy practice. Students are introduced to and demonstrate skills with an electronic documentation system. Etiology, symptomatology, prognosis, and treatment will be discussed. 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. Issues that involve OT within the political system are discussed and addressed. Prerequisites: Successful completion of all fall OTA program courses. Corequisites: 203, 206, 210, 215, 216

OTA 208. Occupational Therapy in Psychosocial Performance 3 credits This course explores Occupational Therapy in mental health. The student will demonstrate understanding of mental health disorders and be introduced to the therapeutic use of self through group treatment sessions. The unique role of occupational therapy within mental health and addiction is explored. Students will utilize this knowledge to improve treatment of patients and understand the distinct role mental health plays in overall quality of life and occupations. Prerequisites: OTA program admission. Corequisites: 201, 202, 204, 205, 209

OTA 209. Modalities 3 credits
This course will provide a foundation of basic treatment practices within the scope of the OTA, including massage, pain management, standardized assessments, transfers, active and passive range of motion, electrical stimulation, ultrasound, paraffin, manual muscle testing, and patient safety. Students will learn the theory's associated with physical agent modalities and demonstrate these foundational skills while focusing on awareness of safety for clients. Prerequisites: OTA program admission. Corequisites: 201, 202, 204, 205, 208 Course fee \$50.00: Students will create a simple project using various items that can be uses as treatment modalities in clinical practice.

OTA 210 Occupational Performance of Children 3 credits
This course provides the student with an in depth look at performance and occupation in the pediatric population. Specific settings and diagnoses are explored to address the development of function for children. The student will explore developmentally appropriate treatments by utilizing activity analysis for various pediatric and adolescent diagnoses. Prerequisites: Successful completion of all fall OTA courses. Corequisites: 203, 206, 207, 215, 216 Course fee: \$60.00: AOTA Digital Badging program is connected with this course in order to enhance learning and show advanced skills for practice.

OTA 211 and OTA 212. Level II Fieldwork I & Level II Fieldwork II 5 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 eight week Level II clinical fieldwork assignments at (or within 12 months of) the completion of all other academic course work. The student will utilize knowledge obtained within the coursework to develop and master clinical skills in diverse settings. This skill level will allow students to be successful in a multitude of practice settings. These clinical fieldworks are non-paid, pre-employment experiences essential to enhance student learning and knowledge of clinical practice. Prerequisite: successful completion of all OTA didactic requirements. Corequisites: 217 Course fee: \$55.00 per fieldwork: Additional drug screen / background check / physical fees per fieldwork location. Electronic FW Evaluation fee.

OTA 215. Occupational Performance in the Older Adult 3 credits
This course provides an in depth look at the aging process and how it effects occupational performance. Appropriate interventions as well as specific diagnoses and considerations are discussed from an occupational therapy standpoint. Utilizing activity analysis, the student will determine best practices for maintaining functioning and independence within the elderly and aging population. Prerequisites: Successful completion of all fall OTA program courses. Corequisites: 203, 206, 207, 210,

216Course fee: \$60.00: AOTA Digital Badging program is connected with this course in order to enhance learning and show advanced skills for practice.

OTA 216. Capstone Seminar

1 credit

This 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.

OTA 217 Capstone Seminar II

2 credits

This 15-week, online course focuses, in part, on reviewing major areas of OTA study in preparation for the national certification exam. Practice exams are given. Test taking strategies are discussed. Students will complete various modules that are meant to enhance their OTA program educational experience and prepare students for registering for and passing the certification exam. An additional part of the course will focus on licensure and professional development as well as different roles available for the OTA. Prerequisite: Successful completion of fall and spring OTA courses. Corequisites: 211, 212

*** Each student will pay an additional 185.00 per semester while in the OTA program in order to cover their NBCOT exam cost of \$555.00 at the end of their program.**

ORGANIZATIONAL LEADERSHIP (ORGL)

ORGL 150. 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.

ORGL301. 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 overarching 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 function 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 curriculum. 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, theories, 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. Students 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 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

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.

PHYSICAL SCIENCE (PHSC)

PHSC 201 Introductory Physics I 3 credits

This is a course intended for science majors. 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 . Prerequisites: MATH 123. Taught fall semester. Corequisite PHSC 201L

PHSC 201L Introductory Physics Lab 1 credit

Laboratory exercises to reinforce topics in Physics 201 lecture. Corequisite PHSC 201
Laboratory fee \$15

PHSC 202. Introductory Physics II 3 credits

This laboratory course is intended for science majors. The topics that are considered to be crucial include: electricity, magnetism, light, optics, relativity, quantum physics, atomic physics, and nuclear physics. Prerequisite: MATH 123.. Taught spring semester. Corequisite PHSC 202L

PHSC 202L Introductory Physics Lab II. 1 credit

Laboratory exercises to reinforce topics in Physics 202 lecture. Corequisite PHSC 202
Laboratory fee \$15

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.

PSYCHOLOGY (PSYC)

PSYC 101. Introduction to Psychology **3 credits**
This course provides 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**
This course covers 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**
This course provides 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**
This course is 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**
This course is 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**
This course introduces clinical psychology and therapeutic methods, including familiarization with current testing and assessment procedures. Prerequisite: PSYC 101.
- PSYC 362. Abnormal Psychology** **3 credits**
This course includes 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**
This course includes 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**
This course is 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**
This course gives students an opportunity for 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, 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: MATH120, BIOL212, 212L, RADT101,107,107L.

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, RADT 101, 101L, 107L.

RADT 107L. Introduction to Radiology and Patient Care Laboratory **1 Credit**

Lab experience for 107. Application of knowledge acquired in 107 through practice in a lab environment. Co-requisites: MATH120, BIOL212,212L,RADT101,101L,107.

RADT 108. Radiologic Clinical I **2 Credits**

First 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. Prerequisites: MATH 120, BIOL 212, 212L, RADT 101, 101L, 107, 107L. Co-requisites: SSCI 105, COMM 101, RADT 111, 111L, 115, 125.

RADT 111. Imaging Procedures II **2 Credits**

Presents knowledge base necessary for performing diagnostic studies of the spine, portable/OR radiography, fluoroscopy, tomography, and pediatrics. Prerequisites: MATH 120, BIOL 212, 212L, RADT 101, 101L, 107, 107L. Co-requisites: SSCI 105, COMM 101, RADT 108, 111L, 115, 125.

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, RADT 101, 101L, 107, 107L. Co-requisites: SSCI 105, 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, RADT 101, 101L, 107, 107L. Co-requisites: SSCI 105, 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 base acquired in 101 and 108. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 125. Co-requisites: COMM 102.

RADT 125. Radiologic Physics II **3 Credits**

Builds on concepts learned in 115 and applies them to understanding X-ray production, interaction of photons with matter, and radiographic equipment. Prerequisites: MATH 120, BIOL 212, 212L, RADT 101, 101L, 107, 107L, 115. Co-requisites: SSCI 105, COMM 101, RADT 108, 111, 111L.

RADT 128. Radiologic Clinical III **1 Credit**

Third course in clinical series. 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 base acquired in previous courses. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125. Co-requisites: RADT 206.

RADT 201. Imaging Procedures III **2 Credits**

Presents the knowledge base necessary for performing diagnostic studies including the skull, facial exams, interventional procedures, and trauma. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201L, 203, 204, 208, 210.

RADT 201L. Imaging Procedures III Lab **2 Credits**

In conjunction with 201, 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, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201, 203, 204, 208, 210.

RADT 203. Image Acquisition**3 Credits**

Study of concepts and practical applications for producing quality radiographs, including contrast and density, technique variations, recorded detail, and distortion. Incorporates concepts of equipment usage including film, screens, grids, beam restrictors, and automatic exposure control. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201, 201L, 204, 208, 210.

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, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201, 201L, 203, 208, 210.

RADT 206. Quality Assurance**1 Credit**

Principles of practice for effective imaging quality control. Addresses equipment calibration, darkroom and processing, repeat rate, artifacts, and various quality standards. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125. Co-requisites: RADT 128.

RADT 208. Radiologic Clinical IV**3 Credits**

Fourth course in clinical series. 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 base acquired in in previous courses. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201, 201L, 203, 204, 210.

RADT 210. Radiologic Pharmacology and Drug Administration**2 Credits**

Introduces basic pharmacological concepts including pharmacokinetics, pharmacodynamics, contrast administration, venipuncture, and overall patient care during these processes and procedures. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 206. Co-requisites: RADT 201, 201L, 203, 204, 208.

RADT 217. Radiographic Pathology**2 Credits**

Focuses on disease and injury processes throughout the body's systems and their radiographic appearance. Includes principles of imaging surrounding these pathologies. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 201, 201L, 203, 204, 206, 208, 210. Co-requisites: RADT 218, 229, 230.

RADT 218. Radiologic Clinical V**3 Credits**

Fifth course in clinical series. 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 base acquired in previous courses. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 201, 201L, 203, 204, 206, 208, 210. Co-requisites: RADT 217, 229, 230.

RADT 229. Advanced Imaging **1 Credit**

Introduction to advanced imaging modalities including CT, MRI, and mammography, as well as evaluation of radiographs and digital images produced. Includes principles surrounding ultrasound, nuclear medicine, and PET imaging. Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 201, 201L, 203, 204, 206, 208, 210. Co-requisites: RADT 217, 218, 230.

RADT 230. Capstone Seminar **3 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 registry examination. Also includes resume and interview preparation Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 201, 201L, 203, 204, 206, 208, 210. Co-requisites: RADT 217, 218, 229.

RADT 211. Imaging Procedure IV **3 Credit**

Generalized review of all radiologic theory taught in prior imaging procedures courses, introduction of new procedures, extensive practice testing in final preparation for the American Registry of Radiologic Technologists Prerequisites: MATH 120, BIOL 212, 212L, SSCI 105, COMM 101, COMM 102, RADT 101, 101L, 107, 107L, 108, 111, 111L, 115, 118, 125, 128, 201, 201L, 203, 204, 206, 208, 210. Co-requisites: RADT 217, 218, 229, 230.

SOCIAL SCIENCE (SSCI)

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.

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.

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 **3 credits**

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 **3 credits**

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 **3 credit**

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 **3 credits**

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** **3 credits**
 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** **3 credits**
 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** **3 credits**
 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** **3 credits**
 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** **3 credits**
 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 included are description by 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

3 credits

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 introducing principles and practices of wellness, hygiene, physical fitness, and responsible behavior. The learner explores aspects of personal conduct and views on physical and mental health, relationships, sexuality, alcohol and drug use, and other health-related topics. Educational experiences provide the student knowledge and skills needed for making informed personal choices. Learners can demonstrate competencies in communication and critical thinking. The course is offered during the second eight-week session of the fall and spring semester.

UNIV 104 – College Motivation & Success **3 credits**

This course is designed to foster a meaningful, professional relationship between the student and his/her faculty mentor. During the semester the student will work to discover the importance of assuming responsibility for his/her role in the educational process; receive focused guidance on curricular and professional choices 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 105–Foundations of Character & Leadership **3 credits**

This course is designed to foster a meaningful, professional relationship between the student and his/her faculty mentor. During the semester the student will work to discover the importance of assuming responsibility for his/her role in the educational process; receive focused guidance on curricular and professional choices that will enhance personal and professional development; and develop skills necessary for team building, leadership and enlightened living.

UNIV 106X Success in College Reading **3 credits**

This course is designed to prepare students for college-level reading. Topics include improving vocabulary, increasing comprehension, critical reading, active reading, and study reading.

UNIV 204 – College Success & Leadership **3 credits**

This course is designed to foster a meaningful, professional relationship between the student and his/her faculty mentor. During the semester the student will work to discover the importance of assuming responsibility for his/her role in the educational process; receive focused guidance on curricular and professional choices that will enhance personal and professional development; identify and learn to access University resources and support structures designed to enhance academic and professional success and develop skills necessary for team building, leadership and enlightened living.

UNIV 440. General Studies Capstone **3 credits**

The General Studies Capstone is open to General Studies Majors only and cannot serve as a substitute for a capstone experience in the student's declared major. This course serves as one of two culminating experiences for General Studies Majors. Students in this class will complete the required coursework, but will have some latitude in the subjects covered by the coursework to focus specifically on the student's area of concentration.

Prerequisites: COMM 101, COMM 102, SPCH 103

UNIV 459. Senior Capstone **3 credits**

This course offers students the opportunity to synthesize learning 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. Prerequisites – 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: 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, and their overall collegiate experience. Prerequisites: COMM 101, COMM 102, SPCH 103

GRADUATE COURSE LISTINGS

MASTER OF 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.

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 cyber security will be reviewed. Cyber warfare, both offensive and defensive, and their effects on critical infrastructure will also be a primary focus.

CYBR 620. Legal Issues in Cybersecurity 3 credits

This course will review policy and legal concepts relating to cyber security and information management. It will examine laws, authorities, and the responsibilities of government and the 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. Cyber law raises complex issues involving the characterization of acts (e.g., as a criminal matter or an act of war), and their attribution to responsible actors (e.g., individuals, non-state groups, and state actors) under domestic and international law. On one hand, an act might be characterized as a criminal matter in one jurisdiction, but not at the point of origin--raising issues for policymakers, lawyers and investigators. On the other hand, that same act could also be treated as economic espionage, terrorism or as an act of war--raising issues of international responsibility. In any case, the attribution problem raises technical and policy problems in identifying both the point of origin and the persons responsible for an event. Cyber practitioners must, therefore, have a general appreciation for the complex legal issues, to include the unsettled state of the law and the practical limitations in its application, often raised in addressing cybercrime.

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 analyzed 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 cyber security policy. The course investigates US domestic and foreign cyber security 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 cyber security policy. Students will engage in the use of the bottom up, top down, and the synthesis approach in implementing cyber security policy. The different arms of the government and how they approach cyber security implementation is also addressed.

CYBR 660. Capstone: Practical Applications in Security**3 credits**

This capstone course integrates cyber security strategy, program management, leadership, and technological concepts. Graduate students will demonstrate the ability to effectively strategize, implement and sustain a Defense in Depth cyber security 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 Master in Cyber Security 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 860 Special Topics1-3 credits Special Topics in Leadership is a seminar course offered in response to departmental needs. The content may vary depending on the leadership topic selected. This seminar explores the executive leader's strategic role in aligning people, processes and resources in today's rapidly changing competitive environment impacted by a specialized topic area in leadership. Participants will critically reflect on discussions and scenarios drawn from literature on a specialized topic area in leadership.

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 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 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 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 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 615. 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 630. 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.

GSL 690. Strategic Leadership Capstone**3 credits**

The capstone course emphasizes the practical application of strategic leadership concepts, theories and practices in real organizational environments and situations. Students participate in an organizational assessment and observe organizational leadership, strategy, customer focus, knowledge management, workforce, operations, and results; analyze and interpret the findings; and make recommendations for future actions based on strategic leadership theories and the research. Students will finalize their capstone with the Baldrige Self-Analysis based on their completed Organization Profile and Criteria.

STRATEGIC LEADERSHIP CONCENTRATION**Strategy as Practice****GSL 641. 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.

GSL 651. Strategic Decision Making in Strategy as Practice**3 credits.**

This course concentrates on strategic decision-making under conditions of uncertainty using SAP as the analytical framework. The development of mission statements, strategic goals, control mechanisms, and alternative levels of strategy will be explored. Students learn the analytical process organizations use to determine the parameters of their strategic plan, the problems organizations encounter in formulating their plan, and the methods firms use to ensure that their strategic plan is implemented efficiently.

GSL 661. 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.

Business Leadership**GSL 642. Strategic Issues in Business Leadership****3 credits**

This course introduces the key concepts, tools, and principles of contemporary business strategy formulation and competitive analysis. It is concerned with leadership and managerial decisions and actions that affect the performance and survival of business enterprises. The course is focused on the information, analyses, organizational processes, skills and business judgment leaders and managers must use to devise strategies, position their businesses, define firm boundaries and maximize long-term profits in the face of uncertainty and competition. This course emphasizes leadership and strategy through a lens of management and leadership theories and interdisciplinary student experience.

GSL 652. Strategic Decision Making in Business Leadership **3 credits**

This course concentrates on the dynamics of strategic decision making in business to strengthen leadership skills and establish a culture of decisive action. Students analyze the long-term impact decisions have on an organization and consider decision-making as a regular process and not as a periodic event. Students engage in the analytical process organizations use to determine the parameters of their strategic plan, the problems organizations encounter in formulating their plan, and the methods organizations use to ensure the strategic plan is implemented efficiently.

GSL 662x. Strategic Innovation in Business Leadership **3 credits**

This course analyzes key concepts, tools, and principles of contemporary business strategy and innovation. The course focuses on exploring leadership's role in nurturing organizational innovation, in part through managing culture. The course is designed to help students understand the forces that limit innovation, identify barriers in their own business culture, and develop strategies to capitalize on the full value of their team's imagination. Participants will evaluate the capacity for innovation, distinguish an innovative culture, and discriminate issues before they become constraints.

HEALTHCARE LEADERSHIP

GSL 644x Strategic Issues in Healthcare Leadership **3 credits**

This course concentrates on analyzing the strategic issues which impact the ability to successfully implement cost effective programs, maintain efficient operations and services, staff and train employees and support other healthcare initiatives. This course emphasizes leadership action through a lens of communication and capacity development as a process of healthcare leadership. Students will exercise their ethnographic and case study research methodology skills to provide a more contextual understanding of strategic issues within healthcare leadership.

GSL 654x Strategic Decision Making in Healthcare Leadership **3 credits**

This course concentrates on cross-functional strategic decision-making under conditions of uncertainty. Students are challenged to identify environmental and competitive demands and develop alternative levels of strategy with respect to patient and care processes, improving service processes and repositioning care programs for value add to the organization. Students are exposed to the analytical process organizations use to determine the parameters of their strategic plan, the problems organizations encounter in formulating their plan, and the methods used to ensure the strategic plan is implemented as planned.

GSL 664x Strategic Innovation in Healthcare Leadership **3 credits**

This course focuses on exploring recent innovations within healthcare leadership along with the processes leaders utilize to acquire and implement new initiatives 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. (3 graduate credit hours)

MASTER OF BUSINESS ADMINISTRATION (MBA)

MBA 671. 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 672. 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 globaleconomy.

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 677X. Managerial Finance**3 credits**

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 678X. Strategic Decision-Making Project**3 credits**

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.

MBA CONCENTRATION COURSES**MBA 711. Organizational Behavior****3 credits**

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 sub-cultures. 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 712X. Operations Management**3 credits**

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 713X. Leadership and Ethics**3 credits**

This course examines the theoretical frameworks of leadership and expands on management’s roles and responsibilities as leaders to create and maintain ethical workplaces. Providing foundations and frameworks for making ethical decisions in business, government, and society.

MBA 721 / PHAR 507. 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 722x / PHAR 505. Healthcare Economics **3 credits**

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 723X / PHAR 508. 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 / BAAI 700. Business Analytics for Managers **3 credits**

This course will introduce students to managerial perspectives on Big Data, Data Science and Analytics. It frames business analytics concepts, models and applications for gaining data driven insights and improvement of business outcomes. This course will familiarize students with four commonly stated facets of big data: volume, velocity, variety and veracity. It will also introduce three generally acknowledged dimensions of analytics: Descriptive Analytics, Predictive Analytics, and Prescriptive Analytics. Prerequisites: None

MBA 732 / BAAI 720. Data Visualization & Data Mining **3 credits**

This course will introduce students to managerial perspectives on Data Visualization, Data Mining and related Data Science concepts. This course will help students understand the development of fair and meaningful graphical representation of information. Students will be introduced to data association, classification and clustering techniques under data mining topics. Student will thus learn to draw logical conclusions, provide interpretation and recommendations through the use of data visualization and data mining for pattern identification and insights discovery. Prerequisites: MBA 731

MBA 733 / BAAI 740. Data Science Applications & Technologies **3 credits**

This course will introduce students to data science thinking and applications, with a focus on using technologies to manage data and generate insights. The course will also introduce students to cloud computing principles, and associated challenges and benefits. Students will also be exposed to current industry trends and challenges including distributed computing for analytics, real time data analysis and in-memory computing concepts. Prerequisites: MBA 731

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 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 courses. 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.

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.

MPAS 702. Internal 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 Hospital Medicine. The focus of this preceptorship is providing care for patients in the inpatient setting

MPAS 703. Pediatrics Rotation **5 credits**

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.

MPAS 704. Obstetrics/Gynecology Rotation **5 credits**

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.

MPAS 705. Emergency 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 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.

MPAS 706. General Surgery Rotation **5 credits**

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.

MPAS 707. Psychiatry Rotation **5 credits**

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.

MPAS 710. Elective Rotation **5 credits**

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.

MPAS 799. Summative Seminar **0 credit**

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).

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 505 / MBA 722 Healthcare Economics **3 credits**

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.

This course is considered a concentration credit within the MBA program and an elective credit within the Pharm.D. program.

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 507 / MBA 721. 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. This course is considered a concentration credit within the MBA program and an elective credit within the Pharm.D. program.

PHAR 508 / 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. This course is considered a concentration credit within the MBA program and an elective credit within the Pharm.D. program.

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. Prerequisite: 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: PHAR612.

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 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. Pharmacy Management and Marketing**3 credits**

The major goal of this course is to provide the student pharmacist with a conceptual and practical understanding of accounting, financial analysis, human resource management, basic organizational behavior concepts, management skills, and their applications to pharmacy and healthcare organizations. Additionally, the course will provide a working knowledge of the marketing principles to pharmacy practice, marketing techniques for pharmacy practice, operations, quality improvement, service marketing management, prescription drug promotion and pharmaceutical marketing issues currently of interest to the pharmaceutical industry and pharmacy practice.

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 and 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](#) and [2013 CAPE Outcomes for Pharmacy Education](#).

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Bell, Nicollette, *Assistant Professor, Director of Health Promotion* BA, MA Marshall University. (2017-)

Chillag, Hallie, *Assistant Professor of Social Sciences and Director, Individualized Major – Multidisciplinary Studies* BA, West Virginia University; MS, The Pennsylvania State University. (2008-)

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* BS, West Virginia University. (2010-)

Ellis, Anitra, *Assistant Professor of Nursing* ADN, RN, Southern West Virginia Community and Technical College; BSN, West Virginia University School of Nursing; MSN, West Virginia University School of Nursing; DNP, Chamberlain University School of Nursing. (2018-)

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-)

Fisher, Kara, *Assistant Professor of Political Science* BA, Bethany College; MA, PhD, West Virginia University. (2014-)

Gahbauer, Alice, *Assistant Professor of Pharmacy Practice* BA, Johns Hopkins University; PharmD University of California, San Francisco. (2015-)

Gaiimo, Anthony J. III, *Assistant Professor of Leadership* BS Temple University; MSSL, Mountain State University; FBI National Academy, University of Virginia. (2016-)

Hall, Leah, *Assistant Professor of Pharmacy Practice and Executive Director of Assessment* PharmD, West Virginia University. (2013-)

Hensley, Jessica, *Assistant Professor of Nursing* 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-)

Hurt, Jacqueline, *Program Director, Occupational Therapy Assistant, Assistant Professor* AS, BS, Mountain State University; MA, University of Southern California. (2013-)

James, Lori. *Assistant Professor of Mathematics*. BS, West Virginia University; MA, Marshall University. (2011–2013, 2014 -)

Jensen, Melissa, *Assistant Professor of Physician Assistant Studies*. MSPA, PA-C, Mountain State University. (2013-)

Juengel, Karrie, *Assistant Professor of Pharmacy Practice* PharmD, Ferris State University. (2015-)

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* PharmD, University of Charleston. (2016-)

Lewis, Patricia, *Assistant Professor of Nursing* BSN, University of Charleston; MSN- FNP, Marshall University. (2014-)

Mahoney, Judy, L., *Assistant Professor of Nursing* ASN, RN, Community College of Allegheny County; BS Public Health, Wheeling College; BSN, Wheeling Jesuit University; MSN Ed., Wheeling Jesuit University. (2019-)

Marsh, Skylar, *Assistant Professor of Nursing, Clinical Coordinator Beckley Instructional Site* BSN, RN, Mountain State University; MSN, Wheeling Jesuit University (2015-)

Mashinter, Jody, *Assistant Professor and Executive Director of Athletic Training, Exercise Science, and Health Promotion, Athletic Trainer* BS University of Northern Colorado; MS University of Colorado, Colorado Springs. (2004-)

McIntyre, Laura Silver, *Assistant Professor of Leadership* BS, Westfield State College; MA, National University, MA, Westfield State College; DEL University of Charleston. (2016-)

McLaughlin, Robin G., *Assistant Professor of Leadership* BA, MA Antioch University; PhD Lesley University. (2015-)

Monasmith, Robin, *Assistant Professor of Nursing* BSN, RN, West Virginia University School of Nursing; MSN, University of Phoenix. (2018-)

Neville, Amanda, *Assistant Professor of Education* BS, West Virginia University; MA, Marshall University. (2015-)

Newman, Rebecca, *Instructor of Library Science* BA, University of Arizona; MSLS, Clarion University. (2008-)

Newsome, Jason, *Assistant Professor of Psychology* BA, West Virginia University Institute of Technology; MA, Marshall University; PhD, Capella University. (2019-)

Pack, Jennifer L., *Assistant Professor, Chair and Director, Department of Physician Assistant* BS, College of West Virginia; MMS, PA (2012-)

Polsinelli, Gregory, *Assistant Professor of Pharmaceutical and Administrative Sciences* BA, BS, PhD, The Ohio State University. (2019-)

Ramirez, Ronaldo V., *Assistant Professor of Pharmaceutical and Administrative Sciences* BS, MPH, West Virginia University. (2006-)

Rashrash, Mohamed, *Assistant Professor of Pharmaceutical and Administrative Sciences* BPharm, MS, PhD, Howard University. (2019-)

Rice, Lailah M. *Assistant Professor and Director of Clinical Education, Physician Assistant Studies.* BA, West Virginia University; MS, PA-C, Alderson-Broadbudds University. (2013-)

Robinson, Kimberly, *Assistant Professor of Leadership* BBA, Howard University; MBA, Strayer University; DEL, University of Charleston.

Rowe, Jennifer, *Assistant Professor of Occupational Therapy Assistant Bachelor of Psychology, Master's in Occupational Therapy, OTR/L, Shenandoah University; Doctorate in Occupational Therapy, Jefferson College of Health Sciences.* (2019-)

Singleton, Raymond, *Assistant Professor of Education BA, University of Charleston; MA, EdD, Marshall University Graduate College.* (2013-)

Stevens, Bren, *Assistant Professor of Business and Athletic Director BA, Morris Harvey College; MS, Marshall University; EdD, Lacrosse University.* (2002-)

Strother, Elizabeth, *Assistant Professor of Nursing BSN, RN, Marshall University School of Nursing; MSN, Nursing Administration, Marshall University Graduate College; MSN, Family Nurse Practitioner; Marshall University Graduate College.* (2016-)

INSTRUCTORS

Byzewski, Kasey, *Instructor of Athletic Training and Exercise Science, Assistant Athletic Trainer BS Barton College; MR North Carolina State University.* (2017-)

Condee, Jane, *Instructor, Pharmacy Practice and Assistant Director of Experiential Education BS Pharmacy, West Virginia University* (2012-)

Taylor, John, *Assistant Professor of Chemistry BS, University of Manchester Institute of Science and Technology (UMIST), UK (Now the University of Manchester); Ph.D. Auburn University.* (2020-)

Tenney, Jacob, *Assistant Professor of Business and Program Director, Financial Planning Program BS, MBA Brigham Young University; PhD, Texas Tech University, CFP®.* (2018-)

Todd, Beth, *Assistant Professor of Pharmacy PharmD, University of Charleston School of Pharmacy, BCPS, BCACP*

Wilcox, Jason, *Assistant Professor of Radiologic Technology; Director of Radiologic Technology MS, Mountain State University.* (2013-)

Williams, Ashley, *Assistant Professor of Nursing, Assistant Director of Curriculum BSN, RN, University of Charleston; MSN; Walden University; Doctor of Executive Leadership studies, University of Charleston.* (2014-)

Cummings, Rachel, *Instructor of Athletic Training and Exercise Science, Assistant Athletic Trainer BS, Mount Union College; MA, Kent State University.* (2015-)

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-)

Floyd, Terry. *Instructor of Digital Media Design* 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* BS, University of Charleston; R.T. (R) (2015-)

Horsley, Steven E., *Instructor of Leadership and Program Director, Frontline Leadership Program* BS, Excelsior College; MSSL, DEL, 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-)

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* BS Mountain State University; MS, University of Charleston. (2014-)

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-)

Wilson, Charles P., *Instructor of Radiologic Science* AS, University of Charleston; R.T. (R) (MR), BA, West Virginia University. (1991-)

Wright, Catherine, *Instructor of English* BA, University of Charleston; MA, Marshall University (2020-)

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; M.BA, 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.

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, 1982-2020)

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-Broadbudd 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.

Harper, R. Eugene, *Professor of History Emeritus (1967-2003)* 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* BA, State University of New York at Genesco; MLS, State University of New York at Albany. (1991- 2018)

McMillen, Dennis A., *Associate Professor of Business Emeritus* BS, Morris Harvey College; MBA, Marshall University. (1977- 2018)

Newman, Robert G., *Professor of Religion Emeritus (1967-1999)* BA, University of Florida; MDiv Columbia Theological Seminary; PhD Drew University; Postgraduate Study, Columbia University, University of Chicago.

Spiker, Martha S., *Professor of Psychology and Chair, Department of Social Sciences and Humanities* BA, West Virginia University; MS, PhD, Ohio University. (1982- 2019)

Taylor, Anna-Neale, *Associate Professor of Nursing Emeritus* (1975-1990, 1991-2000) BSN, West Virginia University, MA, West Virginia College of Graduate Studies, MSN., Bellarmine College.

Valentine, Rosemary N., *Associate Professor of Nursing Emeritus* BSN, West Virginia University; MSN, University of Texas. (1976-83, 1986-2009)

Wilson, Lillian, *Professor of English Emeritus* (1968-1988) BS, Alderson Broaddus College; MA, West Virginia University; PhD, Ohio University.

Wright, Barbara D., *Dean, Morris Harvey School of Arts & Sciences, Associate Dean for Curriculum and Professor of Music* B.M., Converse College; MA, PhD, The University of Michigan; M.M., Duquesne University. (1994- 2019)

Yeager, Barbara D., *Professor of English Emeritus* (1963-2001) BA, Wheeling College; MA, Marshall University; EdD Virginia Polytechnic Institute and State University.