



UNIVERSITY OF LYNCHBURG CATALOG

One Hundred Twenty-Second Session 2024-25
Lynchburg, Virginia 24501-3113

Thank you for your interest in our undergraduate programs at the University of Lynchburg. This catalog represents the most current information available at the time of publication for the academic year indicated on the cover. However, the University may elect to make changes in the curriculum regulations or other aspects of this program. Thus, the provisions of this catalog are not to be regarded as an irrevocable contract between the University and the student.

University of Lynchburg
Lynchburg, VA 24501-3113
434.544.8100

FALL SEMESTER 2024

ACADEMIC CALENDAR

	M	T	W	R	F	S
Aug				22	23	
	26	27	28	29	30	
Sept	2	3	4	5	6	
	9	10	11	12	13	
	16	17	18	19	20	
	23	24	25	26	27	
Sept/Oct	30	1	2	3	4	
	7	8	9	[10]	[11]	
	14	15	16	17	18	
	21	22	23	24	25	
Oct/Nov	28	29	30	31	1	
	4	5	6	7	8	
	11	12	13	14	15	
	18	19	20	21	22	
	[25]	[26]	[27]	[28]	[29]	
Dec	2	3	4	5	6	
	(9)	(10)	(11)	(12)	(13)	(14)

Calendar Code:

[#] = Holiday, No Classes

(#) = Examination Day

CALENDAR OF EVENTS

August	22.....	First Day of Classes
	29.....	End of Add Period
September	12.....	End of 3 week Withdrawal Period
	19.....	Pass/Fail Deadline
October	10-13.....	Midterm Vacation
	14.....	Mid-semester
	18-20.....	Homecoming / Parents & Family Weekend
	31.....	End of 10 week Withdrawal Period
November	23- Dec 1.....	Thanksgiving Break
December	6.....	Last Day of Classes
	9-14.....	Examination Period
Dec/Jan	23-17.....	Winter Term (Optional)
January	17.....	January Degree Granted Date

SPRING SEMESTER 2025

ACADEMIC CALENDAR

	M	T	W	R	F	S
Jan	{20}	21	22	23	24	
	27	28	29	30	31	
Feb	3	4	5	6	7	
	10	11	12	13	14	
	17	18	19	20	21	
	24	25	26	27	28	
Mar	3	4	5	6	7	
	[10]	[11]	[12]	[13]	[14]	
	17	18	19	20	21	
	24	25	26	27	28	
Mar/April	31	1	2	{3}	4	
	7	8	9	10	11	
	14	15	16	17	18	
	21	22	23	24	25	
May	28	29	30	1	2	
	5	6*	(7)	(8)	(9)	(10)
	(12)	(13)		"15"	"16"	

Calendar Codes: [#] = Holiday, No Classes
 {#} = Student Scholar Showcase & Assessment Day, No Classes
 * = Wednesday Classes will meet on May 6
 (#) = Examination Day
 "#" = Commencement

CALENDAR OF EVENTS

January	21	First Day of Classes
	27	End of Add Period
February	10	End of 3 week Withdrawal Period
	17	Pass/Fail Deadline
March	8-16	Midterm Vacation
	14	Mid-semester
April	7	End of 10-week Withdrawal Period
	15-20	Founder's Week
	16	Student Scholar Showcase
	18	Academic Awards Ceremony
May	6	Last Day of Classes
	7-13	Examination Period
	13	May Degree Granted Date
	15-16	Commencement

Summer Session 2025

May 19 – August 8	Summer Session (Optional)
August 8	August Degree Granted Date

Writing Enriched Requirements

To complete the Writing Enriched requirement (WE) students must complete at least four writing enriched courses (WE) in order to graduate.

All WE courses must be completed at the University of Lynchburg. For example, transfer credit for ENGL123 will not apply to the ENGL123 Writing Enriched requirement.

The WE requirement for students who enter University of Lynchburg with transfer credits will be amended as follows (based on the number of credit hours completed prior to enrollment at Lynchburg):

- three WE courses for students with 25-55 transfer credits
- two WE courses for students with 56-76 transfer credits

The following is the list of Writing Enriched (WE) courses:

ACCT	303W	Intermediate Accounting III with Theory
ART	204W	Survey of Art History II
ART	409W	Art Senior Capstone
BIOL	205W	Plant Biology
BIOL	220W	Cellular Diversity
BIOL	307W	Biomedical Science Seminar
BIOL	321W	General Ecology
BIOL	480W	Case Studies in Biology
BUAD	441W	Integrated Application of Business Principles
CHEM	242W	Research Methodology in Chemistry
COMM	201W	Media Writing
COMM	230W	Persuasion
COMM	303W	Research Methods in Communication
COMM	401W	Advanced Theory and Senior Thesis
CRIM	372W	Quantitative Methodology
CRIM	430W	Senior Research Capstone
DELL	401W	Senior-Year Seminar: Global to Local Diversity Theme
DELL	402W	Senior-Year Seminar: Civilization, Power, and Justice Theme
DELL	403W	Senior-Year Seminar: Environmental and Individual Sustainability Theme
DELL	404W	Senior-Year Seminar: Technology and Society Theme
ECON	450W	Senior Seminar in Economics
EDUC	310W	Language and Literacy II
ENGL	123W	College Writing Workshop
ENGL	201W	Literature and Culture I: Masterpieces from Antiquity Through the Renaissance
ENGL	202W	Literature and Culture II: Works from the Enlightenment to the Present
ENGL	203W	Expository Writing
ENGL	206W	Fantasy And Science Fiction Writing
ENGL	207W	Technical Writing in the Healthcare Industry
ENGL	208W	Science Writing for a General Audience
ENGL	209W	Nature Writing
ENGL	220W	Introduction to Literary Studies
ENGL	223W	Writing for Publication
ENGL	291W	Literature and the Body: Textual and Cultural Exploration of Embodiment
ENGL	292W	Literature and Nature: Textual and Cultural Explorations of the Natural World
ENGL	293W	Literature and Justice: Textual and Cultural Explorations of Morality and Law
ENGL	294W	Literature and Place: Textual and Cultural Explorations of Landscape and Locality
ENGL	308W	English for Life
ENGL	314W	History of the English Language
ENGL	315W	English Grammar
ENGL	362W	The Short Story
ENVS	201W	History of Earth and Life
EXPH	350W	Research Methods in Exercise Physiology
FIN	405W	Investment Fundamentals
HIST	103W	Turning Points in World History
HIST	105W	History of Disease and Medicine
HIST	106W	War and Society
HIST	200W	The Historians Craft
HIST	347W	Slavery and Race in the Early Americas
HIST	402W	History Senior Thesis Seminar
HONR	103W	Writing in the World
HONR	211W	Exploring the Literary Landscape
HONR	212W	Reason and Responsibility
HONR	451W	Senior Honors Project
HPE	303W	Human and Motor Development
HPE	304W	Sport, Exercise, and Performance Psychology
INTL	321W	Research Methods in International Relations
INTL	400W	Senior Thesis in International Relations
LATN	201W	Intermediate Latin
LATN	202W	Intermediate Latin II
LATN	205W	Intermediate Latin I - Medical
LATN	208W	Classical Latin Literature in English Translation
LIBS	321W	Research and Writing: Liberal Arts Studies
LIBS	400W	Liberal Arts Studies Capstone Project
MATH	260W	Mathematical Reasoning and Proof
MATH	310W	History of Mathematics

MATH	350W	Experimental Mathematics
MATH	451W	Senior Research
MKTG	375W	Consumer and Buyer Behavior
MUSC	210W	Form and Post Tonal Analysis
MUSC	302W	Music History and Literature I
MUSC	402W	Senior Seminar in Music Performance
NRSNG	402W	Professional Nursing Seminar
NRSNG	410W	Clinical Management and Research Project
NRSNG	412W	Nursing Research and Evidence Based Practice
PHIL	200W	Introduction to Philosophy
PHIL	204W	Ethics
PHIL	214W	Greek Philosophy
PHIL	220W	Art, Truth, and Value
PHIL	222W	God, Faith, and Evil
PHIL	227W	Justice, Freedom, and Equality
PHIL	306W	Knowledge and Reality
PHIL	314W	The Mind and Brain
PHIL	315W	The Philosophy of Law
PHIL	330W	Law Enforcement and Morality
PHIL	400W	Thesis Guidance
PHYS	333W	Computational Physics
POLI	321W	Political Science Research Methods
POLI	372W	United States Foreign Policy
POLI	410W	Senior Thesis Seminar
PSYC	275W	Research Methodology
PSYC	341W	Psychology of Development
PSYC	367W	Child Psychopathology
PSYC	473W	Psychology Non-Research Capstone I
PSYC	475W	Psychology Research Capstone I
PSYC	476W	Psychology Research Capstone II
PBHL	371W	Research in Public Health and Health Promotion Studies
PBHL	405W	Contemporary Health Issues
PBHL	420W	Health Program Planning
RELG	201W	Old Testament
RELG	202W	New Testament
RELG	205W	Religions of Asia
RELG	206W	Judaism, Christianity, and Islam
RELG	207W	Religion, Body, and Health
RELG	211W	Comparative Religious Ethics
RELG	213W	Literature, Myth, and Meaning
RELG	304W	Seminar in Islam
RELG	322W	Contemporary Religious Thinkers
RELG	410W	Senior Seminar
SOCI	358W	Social Theory
SOCI	430W	Senior Research Capstone
SPAN	208W	Hispanic Literature in English Translation
SPAN	222W	Advanced Language Practice: Composition
SPAN	460W	Literature in Spanish: Latin America
SPAN	461W	Literature in Spanish: Spain
SPMG	270W	Governance of Sport Organizations
STAT	400W	Statistical Methods
STAT	451W	Senior Data Science Project
SUST	210W	People and the Environment
THEA	212W	Theatre History and Literature II
THEA	260W	Musical Theatre History and Literature

Major Programs

A major is a program of study pursued through a purposefully structured curriculum drawn from courses in a discipline, field of study, or area of application. At least one-third of a major's requirements are satisfied by completion of courses beyond the elementary level. The curriculum for a major is designed to pursue a set of clearly described goals devised by the program faculty offering the major. Emphases within the major have additional, distinct goals met through a set of courses specific to each emphasis. These courses comprise a substantial part, at least one-fourth, of the total credits required for completion of a major with an emphasis.

Work in a major provides the dimension of depth for the liberally educated person and encourages the student to gain the insights that a particular discipline has to offer. It also affords an initial specialization for advanced study and professional preparation. Each student must meet the specific course requirements listed for a major. To declare or change a major, a student may submit a request to the Registrar via their Lynchburg student portal.

Major programs, with the exception of certain professional programs, may not exceed a total of sixty-two semester hours including prerequisite courses, with no more than forty-eight semester hours required in any one discipline, including prerequisite courses and courses taken to meet General Education requirements. Under certain circumstances, a student may wish to pursue a double major. A minimum of 50 percent of the hours applicable to a major or each additional major must be earned at University of Lynchburg. Double majors may be earned by completing all course requirements listed for both majors. Students must complete all requirements for each major with a minimum overall grade-point average of 2.00 for all courses, and they must earn the minimum grade-point average requirements for all courses specific to each major. Students who have met these requirements will receive a single bachelor's degree and diploma, with all majors and emphases noted on the academic transcript.

ART MAJOR

The Art Department provides students with the study of both the principles and practices of studio art, graphic design, and art history such that the student experience in art is active, significant, and informed. Students studying art will develop an in-depth understanding of the visual arts and participate in focused creative work in order to prepare them for active and intelligent involvement in the creative life of our global culture.

Any student enrolled at the University may take introductory level studio art courses (100 level). Art history classes of any level can be taken without prerequisites, although ART 203-204W is recommended. Supply fees are charged for each studio course. Exhibitions of student work are held throughout the year at the instructor's discretion. Field trips and out-of-class events may be required for some classes. The art major usually requires six consecutive semesters in an emphasis. Students are advised to begin the course of study at the beginning of their freshman year, if possible, but no later than their sophomore year. All art majors must have an art advisor to help facilitate progress in the major. Successful completion of the portfolio review is required of all sophomore and new transfer art majors at the end of the fall semester for continuation in the major.

Sophomore/Transfer Review

The Sophomore Review is an assessment to help monitor students majoring in Studio Art, Graphic Design, Art Education, and Art Therapy. This interview and portfolio review helps to document student learning and progress in the major. The review ensures students meet the requirements and milestones expected of them as a second year or transfer student. The review will determine students' strength and abilities and areas of needed improvement as assessed by faculty in the Art program. The Sophomore Review is required for all art students and transfers enrolled at the University of Lynchburg.

ART MAJOR - ART THERAPY EMPHASIS

Core courses:			Hours
ART	118	Ceramics I	3
ART	122	Sculpture I	3
ART	125	Design Fundamentals I	3
ART	156	Drawing: Techniques and Traditions	3
ART	162	Painting: Techniques and Traditions	3
ART	166	Photography	3
ART	402	Senior Studio Seminar: Context, Criticism, and Craft	3
ART	399	Internship in Art	3
or			
PSYC	399	Internship in Psychological Sciences	
PSYC	111	An Introduction to Psychological Science	4
PSYC	241	Developmental Psychology	3
PSYC	306	Theories of Personality	3
PSYC	308	Abnormal Behavior	3
Three of the following:			9-10
ART	154	Introduction to Graphic Design	
ART	161	Plein Air Painting	
ART	203	Survey of Art History I	
ART	204W	Survey of Art History II	
ART	205	20th Century Art and Contemporary Issues	
ART	214	Art for Elementary School Teachers	
ART	215	Art for Secondary School Teachers	
ART	222	3-D Forms and Space II	
ART	225	Design Fundamentals II	
ART	256	Drawing: Concepts and Innovations	
ART	262	Painting: Illusion and Beyond	
ART	313	Advanced Digital Photography	
ART	329	Art of the Classical Antiquity	
ART	333	Renaissance Art	
ART	335	Toward a Modern World	
ART	339	History of Western Architecture	
ART	366	Alternative Process Photography	
ART	397	Independent Study in Art	
HMSV	201	The Science and Art of Meeting Human Need	
HMSV	320	Mental Health, Substance Abuse, and Child Welfare: Human Services Case Management	
PHIL	220	Art, Truth, and Value	
PSYC	267	Theories of Psychotherapy	
PSYC	274	Statistics for Psychologists	
PSYC	305	Human Memory and Information Processing	
PSYC	312	Learning and Behavior	
PSYC	315	Drugs and Behavior	
PSYC	344	Cognitive Psychology	
PSYC	355	Behavioral Neuroscience	
PSYC	367W	Child Psychopathology	
SOCI	203	Culture, Identity, and Consumption	
<i>Total Hours Required</i>			<u>46-47</u>

Additional courses from the above list are highly encouraged. Students should meet with an advisor to discern which courses fit their area of interest.

ART MAJOR–GRAPHIC DESIGN EMPHASIS

Students in the graphic design emphasis will learn techniques and theories of visual communication through the development of aesthetic awareness, cognitive thinking, and conceptual problem solving. Students will learn graphic design processes involving traditional media and computer-based technologies.

Core courses:			Hours
ART	125	Design Fundamentals I	3
ART	156	Drawing: Techniques and Traditions	3
ART	161	Plein Air Painting	3
or			
ART	162	Painting: Techniques and Traditions	
ART	166	Photography	3
ART	205	20th Century Art and Contemporary Issues	3
ART	225	Design Fundamentals II	3
One of the following:			3
ART	203	Survey of Art History I	
ART	204W	Survey of Art History II	
ART	329	Art of the Classical Antiquity	
ART	333	Renaissance Art	
ART	335	Toward a Modern World	
ART	339	History of Western Architecture	
Emphasis courses:			
ART	154	Introduction to Graphic Design	3
ART	245	Web Design	3
ART	274	Graphics II: Methods and Practice	3
ART	275	Introduction to Animation	3
ART	285	Type and Visual Communication	3
ART	374	Graphics III: Innovation and Analysis	3
ART	407	Portfolio Preparation	3
ART	408	Graphic Design Seminar	3
ART	409	Art Senior Capstone	3
One of the following:			3
ART	399	Internship in Art	
ART	480	Design Practicum	
Two of the following:			6
ART	122	Sculpture I	
ART	161	Plein Air Painting	
or			
ART	162	Painting: Techniques and Traditions	
ART	256	Drawing: Concepts and Innovations	
ART	267	Photojournalism	
ART	313	Advanced Digital Photography	
ART	316	Introduction to Printmaking	
ART	357	Figure Drawing	
ART	398	Special Topics in Art	
<i>Total Hours Required</i>			57

ART MAJOR–STUDIO ART EMPHASIS

The studio art emphasis offers a broad approach to exploring the principles and practices of studio art making to develop the student's creative abilities while enlarging his or her visual and cultural perceptions. It also provides a foundation for those students who wish to pursue further formal training or to continue their development independently as artists. The department strongly recommends that the student majoring in studio art pursue additional art history study.

Core courses:			Hours
ART	122	Sculpture I	3
ART	125	Design Fundamentals I	3
ART	156	Drawing: Techniques and Traditions	3
ART	161	Plein Air Painting	3
or			
ART	162	Painting: Techniques and Traditions	
ART	166	Photography	3
Three art history courses:			9
ART	203	Survey of Art History I	
ART	204W	Survey of Art History II	
ART	205	20th Century Art and Contemporary Issues	
ART	225	Design Fundamentals II	
ART	329	Art of the Classical Antiquity	
ART	333	Renaissance Art	
ART	335	Toward a Modern World	
ART	339	History of Western Architecture	

Additional courses:			Hours
ART	256	Drawing: Concepts and Innovations	3
or			
ART	357	Figure Drawing	
ART	402	Senior Studio Seminar: Context, Criticism, and Craft	3
Nine hours from:			9
ART	154	Introduction to Graphic Design	
ART	161	Plein Air Painting	
ART	218	Ceramics II	
ART	222	3-D Forms and Space II	
ART	256	Drawing: Concepts and Innovations	
or			
ART	357	Figure Drawing	
ART	262	Painting: Illusion and Beyond	
ART	266	Darkroom Photography	
ART	267	Photojournalism	
ART	275	Introduction to Animation	
ART	313	Advanced Digital Photography	
ART	316	Introduction to Printmaking	
ART	322	Advanced 3-D Forms and Space	
ART	356	Advanced Studio Studies: Drawing	
ART	357	Figure Drawing	
ART	362	Advanced Studio Studies: Painting	
ART	366	Alternative Process Photography	
ART	397	Independent Study in Art	
*ART	399	Internship in Art	
<i>Total Hours Required</i>			<u>39</u>

* Only three hours of internship can count towards the major.

ART HISTORY MINOR

Fifteen hours from:			15
ART	110	Introduction to Visual Arts	
ART	203	Survey of Art History I	
ART	204W	Survey of Art History II	
ART	205	20th Century Art and Contemporary Issues	
ART	329	Art of Classical Antiquity	
ART	333	Renaissance Art	
ART	335	Toward a Modern World	
ART	339	History of Western Architecture	
<i>Total Hours Required</i>			<u>15</u>

BIOINFORMATICS MINOR

Core Courses:			
BIOL	114	Cells: Genetic and Molecular Perspectives	4
BIOL	250	Bioinformatics	3
CS	131	Fundamentals of Programming	3-4
or			
C S	141	Introduction to Computer Science and Structured Programming I	
C S	370	Database Management Systems	3
C S	390	Data Mining	3
One of the following:			3-4
BIOL	256	Genetics*	
BIOL	360	Molecular Cell Biology**	
CHEM	320	Biochemistry I***	
C S	380	Artificial Intelligence†	
<i>Total Hours Required</i>			<u>19--21</u>

Prerequisites (additional courses necessary to complete the elective)

* BIOL 113 Evolution, Ecology, and Organisms (4)

** BIOL 113 Evolution, Ecology, and Organisms (4), CHEM 111 Fundamentals of Chemistry I (4), CHEM 112 Fundamentals of Chemistry II (4), CHEM 221 Organic Chemistry I (4)

*** CHEM 111 Fundamentals of Chemistry I (4), CHEM 112 Fundamentals of Chemistry II (4), CHEM 221 Organic Chemistry I (4)

† C S 142 Introduction to Computer Science and Structured Programming II (B- or better)(3)

Total prerequisite hours: 24 – 36 credits

BIOLOGY MAJOR

The science of biology is a process of inquiry, using experimentation and observation to gain understanding of living systems and their interactions with nature. The purpose of the biology major is to acquire knowledge of the basics in the discipline, and prepare students for careers or post-graduate study in the biological sciences. The biology major provides broad preparation appropriate for health-related careers, professional or graduate schools, government or industry, or teacher preparation. The curriculum is designed to ensure that students learn about animals, plants, and microorganisms at the molecular, cellular, organismal, and systems levels

			Hours
Computational electives:			3-4
C S	131	Fundamentals of Programing	
PBHL	365	Introduction to Epidemiology and Biostatistics	
PHYS	141	College Physics I	
PHYS	161	Physics I	
PSYC	274	Statistics for Psychologists	
STAT	222	Introductory Statistics	
Capstone Courses:			
BIOL	307W	Biomedical Science Seminar	1
or			
BIOL	490	Biology Seminar	
BIOL	480W	Case Studies in Biology	3
Elective courses which should include:			
BIOL		*BIOL courses, excluding 100-level courses and 227	7-11
Up to 4 credits of the following:			0-4
CHEM	320	Biochemistry	
ENVS		Up to four hours of ENVS courses, excluding 100-level courses	
<i>Total Hours Required</i>			<u>58-62</u>

*May include no more than 3 credits total of research and/or internship: BIOL 238 Introduction to Research, BIOL 428 Individual Research in Biology, BIOL 399 Internship in Biology.

BIOLOGY MINOR

BIOL	113	Evolution, Ecology, and Organisms	4
BIOL	114	Cells: Genetic and Molecular Perspectives	4
*BIOL		Other BIOL courses, excluding BIOL 101, 238, 399, 428, 480W, and 490	<u>10</u>
<i>Total Hours Required</i>			18

*At least four hours of the minor must be 300-level or higher.

CHEMISTRY MAJOR

The Chemistry Department offers two degree options. The BA is primarily designed for students intending to work in chemical laboratories following graduation, students planning to teach who need an endorsement in chemistry, and pre-professional (pre-medical, pre-dental, pre-veterinary, pre-pharmacy) students. The BS is a more rigorous course of study designed for students wishing to continue their study of chemistry at the graduate level.

Students who intend to major in chemistry and students who intend to prepare for medical, dental, veterinary, or pharmacy school are urged to select Fundamentals of Chemistry their first year.

CHEMISTRY MAJOR–BACHELOR OF ARTS

CHEM	111	Fundamentals of Chemistry I	4
CHEM	112	Fundamentals of Chemistry II	4
CHEM	221	Organic Chemistry I	4
CHEM	222	Organic Chemistry II	4
CHEM	242W	Research Methodology in Chemistry	3
CHEM	359	Analytical Chemistry I	4
CHEM	360	Analytical Chemistry II	4
CHEM	441	Chemistry Seminar	1
MATH	103	Calculus I	3
One set of the following:			8
PHYS	141-142	College Physics	
PHYS	161-162	Physics I and II	
Electives:			3
BIOL	322	Forensic Science	
CHEM		Other CHEM course 200 and above	
<i>Total Hours Required</i>			<u>42</u>

CHEMISTRY MAJOR–BACHELOR OF SCIENCE

CHEM	111	Fundamentals of Chemistry I	4
CHEM	112	Fundamentals of Chemistry II	4
CHEM	221	Organic Chemistry I	4
CHEM	222	Organic Chemistry II	4
CHEM	242W	Research Methodology in Chemistry	3
CHEM	359	Analytical Chemistry I	4
CHEM	360	Analytical Chemistry II	4
CHEM	421	Physical Chemistry I	4
CHEM	422	Physical Chemistry II	4
CHEM	441	Chemistry Seminar	1

			Hours
CHEM	461	Senior Project I	2
CHEM	462	Senior Project II	1
MATH	103-104	Calculus I, II	6
One of the following:			8
PHYS	141-142	College Physics	
PHYS	161-162	Physics I and II	
Electives:			3
BIOL	322	Forensic Science	
CHEM		Other CHEM course 200 and above	
<i>Total Hours Required</i>			<u>56</u>

CHEMISTRY MINOR

CHEM	111	Fundamentals of Chemistry I	4
CHEM	112	Fundamentals of Chemistry II	4
Electives:			10
BIOL	322	Forensic Science	
CHEM		Other CHEM courses excluding CHEM 107, 127, 397, 399, 428, 441	
<i>Total Hours Required</i>			<u>18</u>

COMPUTER SCIENCE MAJOR

The computer science curriculum is designed to provide students with the broad range of core competencies required of all computer professionals, as well as the opportunity to acquire an understanding of selected advanced topics in computer science.

C S	141-142	Introduction to Computer Science and Structured Programming I, II	8
C S	241-242	Data Structures and Abstraction I, II	8
C S	451-452	Senior Project	6
C S		Other C S courses 300 and above, excluding C S 399	12
MATH	231	Mathematics of Computer Science	3
Three courses from:			9
C S	322	Programming Languages	
C S	350	Software Engineering	
C S	360	Operating Systems and Computer Organization	
C S	370	Database Management Systems	
C S	371	Computer Architecture and Assembly Language Programming	
One Writing Enriched course:			3
*BIOL	205W	Plant Biology	
*CHEM	242W	Research Methods in Chemistry	
ENGL	207W	Technical Writing in the Healthcare Industry	
ENGL	208W	Science Writing for a General Audience	
ENGL	223W	Writing for Publication	
*MATH	260W	Mathematical Reasoning and Proof	
*MATH	350W	Experimental Mathematics	
PHIL	200W	Introduction to Philosophy	
PHIL	204W	Ethics	
<i>Total Hours Required</i>			<u>49</u>

* Course has non-general education prerequisites

Recommended electives:

Computer science is a large field with a diverse set of specializations. Although the major requires that students take four 300-level electives, students are encouraged to take more 300-level electives if their schedules permit. Computer science majors will typically find that minoring in mathematics, business, or physics will provide a very useful complement to the major.

COMPUTER SCIENCE MINOR

C S	141-142	Introduction to Computer Science and Structured Programming I, II	8
C S		Other C S courses 200 and above, excluding C S 399	<u>9</u>
<i>Total Hours Required</i>			17

CREATIVE WRITING MINOR

The creative writing minor allows students to pursue creative writing within the larger context of academic study. The purpose of the program is to give students a rigorous background in the fundamentals of creative writing by providing them with the opportunity to study craft, workshop and editing critique, revision, and literature within a structured curriculum and with published writers.

Required courses:			6
ENGL	205	Introduction to Creative Writing	
ENGL	424	Advanced Creative Writing	

			Hours
Genre Workshops:			6
ENGL	346	Creative Writing: Non-Fiction	
ENGL	349	Creative Writing: Poetry	
ENGL	350	Creative Writing: Fiction	
Electives:			6
ENGL	206W	Fantasy and Science Fiction Writing	
ENGL	207W	Technical Writing in the Healthcare Industry	
ENGL	208W	Science Writing for a General Audience	
ENGL	209W	Nature Writing	
ENGL	220W	Introduction to Literary Studies	
ENGL		ENGL courses 300 and above	
MEHU	201	Narrative Health	
<i>Total Hours Required</i>			<u>18</u>

CRIMINOLOGY-PHILOSOPHY MAJOR

The joint criminology and philosophy major provides students with the opportunity to study the basic principles of Criminology and criminal justice practices along with the development of the ability to identify and assess the philosophical presuppositions and implications of those practices.

CRIM	201	Criminology	3
CRIM	202	Criminal Justice Process	3
CRIM	243	Juvenile Delinquency	3
CRIM	285	Criminal Law	3
CRIM	301	Comparative Criminal Justice	3
PHIL	201	Introduction to Logic	3
PHIL	204W	Ethics	3
PHIL	315W	Philosophy of Law	3
PHIL	330W	Law Enforcement and Morality	3
PHIL	400W	Thesis Guidance	3
One of the following:			3-4
BUAD	322	Legal Environment of Business	
CRIM	211	Law and Society	
CRIM	321	Child Abuse and Exploitation	
POLI	326	Constitutional Law	
PSYC	263	Psychology of Law	
SUST	340	Environmental and Climate Justice	
<i>Total Hours Required</i>			<u>33-34</u>

DIGITAL MEDIA ARTS AND DESIGN MAJOR

The Digital Media Arts and Design major is a multi-disciplinary major bringing together aspects of art/design, business, marketing, and communications to provide an opportunity for students in this rapidly expanding field. Digital Media Arts and Design major is designed to appeal to students interested in a media arts and design career requiring skills in the production of content for use in marketing, design, and digital media.

Art Core			
ART	125	Design Fundamentals I	3
ART	156	Drawing 1	3
ART	409W	Art Senior Capstone	3
Emphasis Courses			
ART	154	Graphics I: Process and Technique	3
ART	166	Photography	3
ART	245	Web Design	3
ART	267	Photojournalism	
or			
ART	313	Advanced Digital Photography	3
ART	274	Graphics II: Methods and Practice	3
ART	274	Introduction to Animation	3
ART	225	Design Fundamentals II	3
ART	285	Type and Visual Communication	3
ART	374	Graphics III: Innovation and Analysis	3
ART	408	Graphic Design Seminar	3
Multidisciplinary Courses			
MKTG	200	Social Media Marketing	3
MKTG	209	Principles of Marketing	3
MKTG	425	Interactive Marketing	3
COMM	104	Introduction to Media Technology	3
COMM	304	Digital Editing and Motion Graphics	3
COMM	404	Advanced Digital Editing and Motion Graphics	3
Experiential Learning (one of the following)			3
ART	399	Internship	
ART	480	Design Practicum	
<i>Total Hours Required</i>			<u>60</u>

PHYS	181	Astronomy: The Solar System	Hours
SUST		Other SUST courses 300 and above, excluding 399	
		<i>Total Hours Required</i>	<hr/> 58-60

ENVIRONMENTAL SCIENCE MINOR

Required courses:			
ENVS	111	Environmental Science and Sustainability I	4
ENVS	112	Environmental Science and Sustainability II	4
Electives:			10
ENVS	201W	History of Earth and Life	
ENVS	211	Physical Geography	
ENVS	321	Conservation Ecology	
ENVS	324	Sustainable Forest Management	
ENVS	331	Principles of Hydrology	
ENVS	333	Physical Oceanography	
ENVS	336	Physical Geology	
ENVS	337	Historical Geology	
ENVS	338	Environmental Geology	
ENVS	340	Introduction to Remote Sensing	
ENVS	345	Meteorology	
ENVS	347	Climatology	
ENVS	365	Wetland Ecology	
ENVS	366	Experiential Geology: From Digs to Displays	
ENVS	375	Freshwater Ecology	
ENVS	377	Study Abroad	
ENVS	387	Domestic Study Away	
ENVS	380	Geographic Information Systems (GIS)	
		<i>Total Hours Required</i>	<hr/> 18

GRAPHIC DESIGN MINOR

Students minoring in graphic design must demonstrate an appropriate skill level with computer software and hardware or fulfill listed prerequisites for each course in the minor.

			Hours
ART	125	Design Fundamentals I	3
ART	154	Introduction to Graphic Design	3
ART	156	Drawing: Techniques and Traditions	3
ART	274	Graphics II: Methods and Practice	3
ART	374	Graphics III: Innovation and Analysis	3
One of the following:			3
ART	225	Design Fundamentals II	
ART	245	Web Design	
ART	267	Photojournalism	
ART	275	Introduction to Animation	
ART	285	Type and Visual Communication	
ART	313	Advanced Digital Photography	
ART	316	Introduction to Printmaking	
ART	398	Special Topics in Art	
ART	399	Internship in Art	
ART	480	Design Practicum	
		<i>Total Hours Required</i>	<hr/> 18

HISTORY MAJOR

The purpose of history as a discipline is to examine all aspects of civilization, particularly humanity as the maker of institutions. Humanity is the creative force that has managed to survive and even thrive as a result of its ability to adapt itself and its institutions to changing circumstances. History is accordingly concerned with humanity's ideas about itself and the social, economic, political, intellectual, aesthetic, and religious institutions that it creates to give substance to its beliefs. This study of humanity relative to time provides students with the background they need to understand themselves and their culture.

History 200W should be taken during the sophomore year, since the skills that form the core of this course are essential to success in all upper-level work in this discipline; transfer students should take it in their first spring semester. Additionally, HIST 255 and 256 should also be taken in the sophomore year (for transfer students, in their first year) to round out the common core all history majors will have at the beginning of their program, and provide a broad frame work for all subsequent courses. HIST 402W should be taken in the fall semester of the senior year by all students.

Historiography and Research:			6
HIST	200W	The Historian's Craft	
HIST	402W	History Senior Thesis Seminar	
The United States and the Atlantic World:			6
HIST	255	America to 1877	
HIST	256	America Since 1877	
Pre-Modern European History:			3
HIST	305	England in the Middle Ages	
HIST	311	Medieval Culture	

HUMAN SERVICES MINOR

Core courses:			Hours
HMSV	201	The Science and Art of Meeting Human Need	3
HMSV	268	Social Welfare Policy	3
HMSV	375	Evidence-Based Practice and Evaluation	3
Human Services elective:			3
HMSV		Any HMSV course 200 and above	
Electives:			3
CRIM	245	Women and Crime	
CRIM	320	Victimology	
CRIM	321	Child Abuse and Exploitation	
MGMT	262	Human Resource Management	
POLI	290	American Public Policy	
PSYC	241	Developmental Psychology	
PBHL	340	Women's Health Issues	
SOCI	209	Applied Sociology	
SOCI	222	Sociology of Race and Ethnicity	
SOCI	225	Poverty, Homelessness, and Social Justice	
SOCI	231	Marriage and the Family	
SOCI	264	Social Inequality and Oppression	
SUST	210W	People and the Environment	
<i>Total Hours Required</i>			15

INTELLIGENCE ANALYSIS MINOR

To combat new and existing emerging threats, security professionals increasingly need to be proactive in identifying security gaps and risks using data analytics. This minor provides students with a foundation in data analysis in a security studies context.

Core basis in Security Studies and Statistics:			Hours
ISS	200	Introduction to the Intelligence Community	3
ISS	300	Intelligence Analysis Using Case Studies	3
*STAT	300	Applied Data Science	3
*STAT	302	Introduction to Statistical Inference	3
Electives:			6
BUAD	243	Data Mining	
CRIM	222	Cyber Crime	
^ECON	350	Econometrics	
MGMT	360	Project Management	
STAT	305	Data Handling for Statistics	
STAT	325	Applied Regression	
<i>Total Hours Required</i>			18

*STAT 222 is a prerequisite

^ ECON 201 and BUAD 241 or STAT 222 are prerequisites

INTELLIGENCE STUDIES MAJOR

The major provides students with a rigorous, liberal arts approach to the study of international security policy and issues. It prepares students to be job- competitive in both government and the private sector. It examines the relationship between state and non-state actors, including NGOs, Multinational corporations and non-state paramilitary organizations. It looks at the fundamental question of- what is needed to provide a safe and secure world? What leads to comprehensive human security? How do security threats like terrorists form and persist and what can be done to negate their actions?

Core courses:			Hours
CRIM	202	Criminal Justice Process	3
CRIM	301	Comparative Criminal Justice	3
INTL	280	Security Studies in a Global Context	3
ISS	200	Introduction to Intelligence Community	3
ISS	300	Intelligence Analysis Using Case Studies	3
ISS	400	Senior Thesis Capstone	3
POLI	260	Honor and Terror Politics: South Asia	3
or			
POLI	303	Terrorism and Revolution	
Three hours from:			3
INTL	101	Global Politics	
POLI	111	Quest for Justice	
POLI	112	Quest for Power	
Three hours from:			3
CRIM	372W	Quantitative Methodology	
SOCI	277	Social Research Methods and Statistics	
STAT	222	Introductory Statistics	

			Hours
Experiential Learning:			6
Internships in the DC area can be coordinated with our Professional Career Development Center so that the student does a Domestic Study Away/Internship in DC. Six total hours can be in either or both of the following:			
CRIM	399	Internship in Criminology	
ISS	399	Internship in Intelligence and Security Studies	
Six hours from:			6
CRIM	319	Transnational Crime	
CRIM	333	Drugs, Drug Organizations, and Narco-Terrorism	
ENVS	380	Geographic Information Systems	
HIST	243	Contemporary Africa	
HIST	275	Latin American History	
HIST	322	Europe Since 1914	
HIST	330	Military History	
HIST	370	The U.S. and the World	
HIST	371	History of Drugs and the Drug Trade in the Americas	
HIST	379	History and Politics of the Middle East and North Africa	
INTL	301	Human Security in the Global South	
POLI	265	Growling Tigers, Fiery Dragons: The Asia Pacific	
POLI	275	Latin American Politics	
POLI	296	Russia and the European Neighborhood	
POLI	372W	United States Foreign Policy	
<i>Total Hours Required</i>			<u>39</u>

INTERNATIONAL RELATIONS AND SECURITY STUDIES MAJOR

International relations and security studies is an interdisciplinary major that prepares students to participate actively in the international community. The core courses required of all majors provide a general understanding of the history and structure of the current international system. The program also emphasizes the development of analytical techniques, critical thinking skills, and an appreciation of the complexities of the world's divergent political, economic, and cultural systems. In addition to the core courses, the student chooses an area of concentration including Non-Profit Organizations and Global Development, Security Studies and Terrorism, Area Studies-Global North or Area Studies-Global South.

Within the International Relations major, INTL101 fulfills the Social Studies Area of Study requirement in the DELL General Education curriculum. Additionally, most courses in the major will fulfill the Local to Global Diversity requirement in the DELL General Education curriculum. Because of the importance of foreign languages to anyone working in the international arena, majors are expected to establish a minimum competency at the 202 level in a modern foreign language. International relations majors are also strongly encouraged to include a semester abroad in the country of their foreign language competency as part of their program. Courses from semester long study abroad programs will be substituted for major requirements as appropriate. Courses taken under the Tri College Consortium will be substituted for major requirements as appropriate.

Core courses:			
INTL	101	Global Politics	3
INTL	270	International Relations Theory	3
INTL	321W	Research Methods in International Relations	3
INTL	400W	Senior Thesis in International Relations	3
POLI	207	Comparative Politics	3
Experiential Learning Groups (one of the following):			3
INTL	377	Study Abroad	
INTL	399	Internship in International Relations	
POLI	377	Study Abroad	
One of the following simulations:			3
POLI	283	European Union Politics	
POLI	331	National Model United Nations I	

Students doing more than one Model UN simulation may use the second one to fulfill their International Relations and Security Studies major elective requirement.

Foreign Language:		3
SPAN	202	Intermediate Spanish II

Students may complete the foreign language requirement in a foreign language not offered on campus via placement testing, courses taken through the Tri-College Consortium, or a 202 level foreign language course taken through a study abroad program.

Economics course:			3
ECON	308	International Economic Policy	
INTL	290	Introduction to International Political Economy	
Areas of concentration:			9
(all three courses must come from one of the four areas)			
Non-Profit Organizations and Global Development			
BUAD	222	Ethical Dilemmas in Business and Leadership	
BUAD	265	Leadership and the Classics	

COMM	251	Intercultural Communication
HIST	243	Contemporary Africa
HIST	275	Latin American History
HIST	344	History of Women in the Americas
INTL	301	Human Security in the Global South
INTL	320	African Diaspora in Latin America and the Caribbean
POLI	259	Power, the State, and Bureaucracy
POLI	283	European Union Politics
POLI	306	Comparative Foreign Policy
POLI	331	National Model United Nations I
SOCI	264	Social Inequality and Oppression
SUST	350	Environmental Law and Policy

Hours

Security Studies and Terrorism

CRIM	301	Comparative Criminal Justice
ECON	365	Economics of Terrorism
INTL	280	Security Studies in a Global Context
INTL	301	Human Security in the Global South
POLI	260	Honor and Terror Politics: South Asia
POLI	303	Terrorism and Revolution
POLI	306	Comparative Foreign Policy

Global North

HIST	322	Europe Since 1914
POLI	283	European Union Politics
POLI	290	American Public Policy
POLI	296	Russia and the European Neighborhood
POLI	306	Comparative Foreign Policy
POLI	372W	United States Foreign Policy

Global South

COMM	251	Intercultural Communication
HIST	243	Contemporary Africa
HIST	275	Latin American History
HIST	343	South African History
HIST	397	Independent Study in History
INTL	301	Human Security in the Global South
INTL	320	African Diaspora in Latin America and the Caribbean
POLI	260	Honor and Terror Politics: South Asia
POLI	265	Growling Tigers, Fiery Dragons: The Asia Pacific
POLI	275	Latin American Politics
POLI	306	Comparative Foreign Policy
POLI	375	U.S.- Latin American Relations

Electives (cannot be used to satisfy other International Relations major requirements):

3

ENVS	380	Geographic Information Systems
INTL	213	World Regional Geography
INTL	280	Security Studies in a Global Context
INTL	301	Human Security in the Global South
INTL	320	African Diaspora in Latin America and the Caribbean
INTL	398	Special Topics in International Relations
INTL	399	Internship in International Relations
POLI	283	European Union Politics
POLI	303	Terrorism and Revolution
POLI	304	International Organization and World Politics
POLI	306	Comparative Foreign Policy
POLI	331	National Model United Nations I
POLI	398	Special Topics in Political Science

Total Hours Required

39

INTERNATIONAL RELATIONS MINOR

INTL	101	Global Politics	3
INTL	270	International Relations Theory	3
INTL	301	Human Security in the Global South	3

Three of the following:

9

HIST	243	Contemporary Africa
HIST	275	Latin American History
HIST	306	Great Britain Since 1714
HIST	322	Europe Since 1914
HIST	343	South African History
INTL	280	Security Studies in a Global Context
INTL	320	African Diaspora in Latin America and the Caribbean
INTL	377	Study Abroad

INTL	398	Special Topics in International Relations	Hours
POLI	207	Comparative Politics	
POLI	260	Honor and Terror Politics: South Asia	
POLI	265	Growling Tigers, Fiery Dragons: The Asia Pacific	
POLI	275	Latin American Politics	
POLI	283	European Union Politics	
POLI	296	Russia and the European Neighborhood	
POLI	303	Terrorism and Revolution	
POLI	304	International Organization and World Politics	
POLI	306	Comparative Foreign Policy	
POLI	331	National Model United Nations I	
POLI	372W	United States Foreign Policy	
POLI	375	U.S. – Latin American Relations	
POLI	398	Special Topics in Political Science	
SPAN	340	The Culture and Civilization of Latin America	
<i>Total Hours Required</i>			18

LATIN AMERICAN STUDIES MINOR

Latin America represents one of the most important regions in the world, encompassing almost three dozen countries and over half a billion people. It is important economically, politically, culturally, historically, and socially. The region represents the United States' most important trading area for both imports and exports, more than trade with China. It is a key part of our country's heritage, with almost 20% of Americans tracing their ancestry to the region, and people from the region making up the largest block of immigrants to the United States. Our culture and our history are closely tied to the region, from Mexican food to the Cuban embargo, from cooperation in narcotics interdiction to Reggeaton, the region offers a rich tapestry. This minor will introduce you to the study of the region, giving you essential insight into a part of our world that is increasingly important for our shared future.

SPAN	201	Intermediate Spanish I	3
SPAN	202	Intermediate Spanish II	3
*Interdisciplinary courses:			9
HIST	275	Latin American History	
HIST	375	History of Love and Sex in Latin America	
INTL	320	African Diaspora in Latin America and the Caribbean	
POLI	275	Latin American Politics	
POLI	375	U.S.-Latin American Relations	
SPAN	208W	Hispanic Literature in English Translation	
SPAN	221	Advanced Language Practice: Conversation	
SPAN	340	The Culture and Civilization of Latin America	
SPAN	398	Special Topics in Spanish	
SPAN	441	Advanced Conversation and Culture through Spanish Language Resistance Music	
SPAN	442	Advanced Conversation and Culture through Documentary Film in Spanish	
SPAN	460W	Literature in Spanish: Latin America	
<i>Total Hours Required</i>			15

* Two courses in the interdisciplinary course listing of the minor may be replaced with approved Study Abroad courses taken in Latin America. An approved course substitution form is required.

LAW AND SOCIETY MINOR

Core courses:			12
CRIM	211	Law and Society	
SOCI	201	Social Life in America	
SOCI	256	Deviance, Crime and Social Control	
SOCI	277	Social Research Methods and Statistics	
One from the following:			3
HIST	203	Crime and Punishment in America	
PHIL	315W	Philosophy of Law	
POLI	325	Constitutional Law in the United States I	
POLI	326	Constitutional Law in the United States II	
PSYC	263	Psychology of Law	
SOCI	267	Family Violence: A Sociological Perspective	
<i>Total Hours Required</i>			15

LIBERAL ARTS STUDIES MAJOR

The liberal arts studies curriculum emphasizes the goal of liberal arts education through comprehensively structured courses from several academic disciplines in the liberal arts and sciences, for students with wide-ranging interests, in preparation for a post-undergraduate life. This major offers students an opportunity to integrate multidisciplinary perspectives to enhance problem-solving skills and critical thinking through a breadth of understanding and appreciation of similarities and disparities in disciplines. The objective is to prepare students for a variety of professional careers.

Students wishing to obtain a Liberal Arts Studies degree may pursue any one of two options:

1. SELF-DESIGNED/INDIVIDUALIZED MULTIDISCIPLINARY STUDIES OPTION (42 cr. Hrs.) is meant for those students who are highly motivated and self-disciplined (GPA of 3.2 and above). Admission to this option is only with permission of the head of the Liberal Arts Studies program and the faculty committee created by the student from the 2 or 3 disciplines she/he is interested in pursuing. Depending on coursework, students have the option for a Bachelor of Arts or Bachelor of Science. Students desiring a Bachelor of Science (B.S.) degree in Liberal Arts Studies must complete at least 40 credit hours from undergraduate departments that grant B.S. degrees. Courses in Education and Nursing do not apply to this count because of the integrated nature of

their departmental coursework to achieve a specific degree purpose. If a student reaches graduation requirements with less than 40 hours in science courses a Bachelor of Arts (B.A.) degree in Liberal Arts Studies is awarded.

Admission Requirements

- Students with a GPA of 3.2 and above may submit a proposal for completing a Bachelor's in the (self-designed) Multidisciplinary Studies Major.
- Students must declare their multidisciplinary major prior to completing 60 credit hours of course work.

2. THEMATIC MULTIDISCIPLINARY OPTION (42 cr. hrs.) is meant for students (traditional, non-traditional or transfer students) who have a curriculum emphasizing structured thematic concentrations (see below):

Admission Requirements

- New, transfer, and returning students may declare their intention to work toward a Bachelor of Liberal Arts Studies degree if they meet University of Lynchburg's general admission requirements.
- Students must declare their major prior to completing 60 credit hours of course work.
- All students admitted into the program are required to meet regularly with the head of the program and with her/his advisory committee.

a) A triad of currently existing minors under specific themes identified below (including 6 cr. hrs. of pre-capstone and capstone), following consultation with the head of the Liberal Arts Studies program and a committee of related program faculty. Other combinations of minors may be accepted with approval of relevant School Deans and the Associate Vice President for Academic Affairs.

HUMANITIES AND SOCIETY (3 Minors + LIBS 321W, 400W = 42 credit hours)

History, Sociology, English/Foreign Language (Latin/Spanish) Minors
 History, International Relations or Political Science, Sociology Minors
 Criminology, Political Science, International Relations Minors
 Foreign Language (Latin/Spanish), History, Human Services Minors
 Criminology or Political Science, Human Services, Latin American Studies Minors

GENDER AND SEXUALITY (3 Minors + LIBS 321W, 400W = 42 credit hours)

Human Services, Public Health Minors
 Public Health, Sociology Minors

SUSTAINABILITY and SOCIETY (3 Minors + LIBS 321W, 400W = 42 credit hours)

Environmental Studies, History, International Relations Minors
 Environmental Studies, English or Creative Writing, Sociology Minors

b) Structured studies option, following consultation with the head of the Liberal Arts Studies program and a committee of related program faculty.

AMERICAN STUDIES

			Hours
LIBS	321W	Research and Writing: Liberal Arts Studies	3
LIBS	400W	Liberal Arts Studies Capstone Project	3
Six courses from:			18
HIST	203	Crime and Punishment in America	
HIST	255	America to 1877	
HIST	256	America Since 1877	
HMSV	268	Social Welfare Policy	
POLI	220	The American Political Experience	
POLI	221	American Political Culture	
POLI	290	American Public Policy	
SOCI	214	Religion, Symbols, and Culture	
SOCI	222	Sociology of Race and Ethnicity	
SOCI	231	Marriage and the Family	
SOCI	339	Sociology of the South	
SPMG	275	History of Sport in America	
Minimum of five courses from:			15
ENGL	302	American Literature 1607-1865	
ENGL	303	American Literature 1865-1999	
ENGL	337	American Multi-Ethnic Literature	
HIST	301	Rise of the American City	
HIST	336	American Social History	
HIST	340	Atlantic World in the Eighteenth Century	
HIST	347W	Slavery and Race in the Early Americas	
HIST	348	Racism and Empire in the American Context	
HIST	380	America in the 1960s	
POLI	311	The American Presidency	
POLI	372W	United States Foreign Policy	
SPMG	265	Gender and Sport: Issues and Controversies	
SPMG	285	Sport in American Society	
One of the following:			3
SPAN	202	Intermediate Spanish II	
XXXX	377	Internship	
<i>Total Hours Required</i>			<u>42</u>

COMPARATIVE LITERATURE AND CULTURE STUDIES

			Hours
LIBS	321W	Research and Writing: Liberal Arts Studies	3
LIBS	400W	Liberal Arts Studies Capstone Project	3
XXXX	202	Intermediate Foreign Language	3
Introductory Courses:			9
COMM	229	Introduction to Film	
ENGL	220W	Introduction to Literary Studies	
MUSC	102	World Music and Culture	
SOCI	203	Culture, Identity, and Consumption	
Literature in Translation course:			3
LATN	208W	Classical Latin Literature in English Translation	
SPAN	208W	Hispanic Literature in English Translation	
Intermediate courses (from at least two disciplines):			9
MUSC	215	Jazz and the Origins of Rock Music	
COMM	171	Media and Culture	
ENGL	201W	Literature and Culture I: Masterpieces from Antiquity Through the Renaissance	
ENGL	202W	Literature and Culture II: Works from the Enlightenment to the Present	
LATN	208W	Classical Latin Literature in English Translation	
SOCI	233	Music, Culture, Representation	
SOCI	253	Globalization and Cinema	
SPAN	208W	Hispanic Literature in English Translation	
THEA	211	Theatre History and Literature I	
THEA	212W	Theatre History and Literature II	
Advanced courses (from at least two disciplines):			12
COMM	372	Media Criticism	
COMM	395	Cultural Impact of Popular Television	
ENGL	323	Modern Multicultural Literature	
ENGL	337	American Multi-Ethnic Literature	
MUSC	302	Music History and Literature I	
MUSC	303	Music History and Literature II	
*SPAN	311	Cinema in Spanish	
*SPAN	340	The Culture and Civilization of Latin America	
*SPAN	341	The Culture and Civilization of Spain	
*SPAN	398	Special Topics in Spanish	
*SPAN	460W	Literature in Spanish: Latin America	
*SPAN	461W	Literature in Spanish: Spain	
<i>Total Hours Required</i>			<u>42</u>

* Indicates classes taught in a foreign language.

Study abroad is highly recommended and up to 12 credits of appropriate study abroad courses may be substituted for intermediate and advanced requirements above.

ETHNIC STUDIES

LIBS	321W	Research and Writing: Liberal Arts Studies	3
LIBS	400W	Liberal Arts Studies Capstone Project	3
Choose five courses:			15
COMM	171	Media and Culture	
HIST	203	Crime and Punishment in America	
INTL	101	Global Politics	
MUSC	102	World Music and Culture	
POLI	260	Honor and Terror Politics: South Asia	
POLI	265	Growling Tigers, Fiery Dragons: The Asia Pacific	
POLI	275	Latin American Politics	
SOCI	203	Culture, Identity, and Consumption	
SOCI	214	Religion, Symbols, and Culture	
SOCI	222	Sociology of Race and Ethnicity	
SOCI	231	Marriage and the Family	
SOCI	264	Social Inequality and Oppression	
SPAN	208	Hispanic Literature in English Translation	
300-level and above courses:			15
COMM	395	Cultural Impact of Popular Television	
ENGL	323	Modern Multicultural Literature	
ENGL	337	American Multi-Ethnic Literature	
HIST	343	South African History	
HIST	344	History of Women in the Americas	
HIST	347W	Slavery and Race in the Early Americas	
HIST	375	History of Love and Sex in Latin America	
HIST	377	Study Abroad	
INTL	301	Human Security in the Global South	

INTL	377	Study Abroad	Hours
POLI	377	Study Abroad	
SPAN	311	Cinema in Spanish	
SPAN	340	The Culture and Civilization of Latin America	
SPAN	460W	Literature in Spanish: Latin America	
Foreign language 201 and 202 courses (including Chinese at Randolph College)			<u>6</u>
<i>Total Hours Required</i>			42

EUROPEAN STUDIES

Required courses:

LIBS	321W	Research and Writing: Liberal Arts Studies	3
LIBS	400W	Liberal Arts Studies Capstone Project	3
XXXX	202	Intermediate Foreign Language II	3

Four courses from:

INTL	213	World Regional Geography	12
PHIL	214	Greek Philosophy	
PHIL	215	Medieval Philosophy	
PHIL	216	Modern European Philosophers	
POLI	253	Classical Political Thought	
POLI	254	Modern Political Thought	
POLI	283	European Union Politics	
POLI	285	European Union Leadership	
POLI	296	Russia and the European Neighborhood	

One literature in translation course:

LATN	208W	Classical Latin Literature in English Translation	3
SPAN	208W	Hispanic Literature in English Translation	
THEA	211	Theatre History and Literature I	
THEA	212W	Theatre History and Literature II	

Three courses (from at least two disciplines):

ENGL	306	Medieval Literature	9
ENGL	353	Literature of the Tudor Dynasty	
ENGL	354	The Golden Age	
ENGL	357	Literature of the Romantic Period	
ENGL	358	Literature of the Victorian Period	
G S	377	Study Abroad	
HIST	305	England in the Middle Ages	
HIST	306	Great Britain since 1714	
HIST	339	Atlantic World in the Seventeenth Century	
HIST	389	Tudor and Stuart England	

Three courses (at least one from each discipline):

HIST	311	Medieval Culture	9	
HIST	312	Renaissance and Reformation		
HIST	322	Europe Since 1914		
HIST	323	Greek Civilization		
HIST	324	Roman Civilization		
HIST	388	Modern Europe and the World		
HIST	353	The Holocaust		
SPAN	341	The Culture and Civilization of Spain		
SPAN	377	Study Abroad		
SPAN	461W	Literature in Spanish: Spain		
<i>Total Hours Required</i>				<u>42</u>

GLOBAL LANGUAGE STUDIES

Study abroad is highly recommended and up to 12 credits of appropriate study abroad courses may be substituted for primary and secondary language requirements below.

Required courses:

LIBS	321W	Research and Writing: Liberal Arts Studies	3
LIBS	400W	Liberal Arts Studies Capstone Project	3

Primary Language:

At least 6 courses in one language at the 201 level or above. At least 2 of these courses must be at the 300 level or above.

Secondary Language(s):

At least 5 language courses in any language other than the primary language at the 101 level or above. These courses may be all in one secondary language or in a combination of two or three secondary languages.

English Language:

ENGL	314W	History of the English Language	3
ENGL	315W	English Grammar	
<i>Total Hours Required</i>			<u>42</u>

LIFE SCIENCES RESEARCH MINOR

The life sciences research minor is designed for students interested in gaining hands-on experience in scientific research in the field of biology. Through a combination of research-intensive coursework and either field or laboratory research, students will develop the skills and knowledge necessary to conduct independent research projects and contribute to the advancement of biological knowledge. Upon completion of the minor, students will have a solid foundation in biology research as well as the critical thinking, problem-solving, and communication skills necessary to excel in a research-oriented career or graduate or professional study in biology or related fields.

Three semesters of research including:			Hours
BIOL	238	Introduction to Research	2-3
BIOL	428	Individual Research in Biology	4-6
Courses with a research component:			9-12
BIOL	205W	Plant Biology ¹	
BIOL	220W	Cellular Diversity ²	
BIOL	250	Bioinformatics ³	
BIOL	305	Plant Ecology ⁴	
BIOL	309	Environmental Entomology ¹	
BIOL	310	Ornithology ¹	
BIOL	313	Marine Biology ¹	
BIOL	314	Biology of West Indian Coral Reef Organisms ⁵	
BIOL	321W	General Ecology ⁴	
BIOL	345	Animal Behavior ⁴	
BIOL	354	Toxicology ⁶	
BIOL	360	Molecular Cell Biology ⁷	
BIOL	387	Domestic Study Away	
BIOL	454	Immunology ²	
<i>Total Hours Required</i>			<u>15-21</u>

Prerequisites (additional courses necessary to complete the minor):

¹BIOL 113-114 or ENVS 111-112 (8 credits)

²BIOL 113-114, CHEM 111 (12 credits)

³BIOL 114 (4 credits)

⁴BIOL 113-114 or ENVS 111-112 and MATH 103 or STAT 222 (11 credits)

⁵BIOL 113 or ENVS 111 (4 credits)

⁶BIOL 114 and CHEM 111 (8 credits)

⁷BIOL 113-114; CHEM 111-112, 221 (20 credits)

Total prerequisite hours: 8 – 20 credits

MATHEMATICS MAJOR

The mathematics major seeks to support the University mission by maintaining a strong commitment to the importance of the liberal arts. Since four of the seven original liberal arts (arithmetic, geometry, astronomy, and logic) were mathematical in nature, mathematics has always played an important role in the study of the liberal arts. When properly presented, a mathematics course encompasses the principles of a liberal arts education using logic, numerical concepts, algebraic and geometric principles, mathematical modeling, and sequential development.

Courses in mathematics are offered for the non-major, as well as for the student who plans to major in mathematics. The curriculum is designed to serve the interests and needs of several groups of students, particularly:

1. Those who seek a major in mathematics as background for graduate school or employment (bachelor of science or bachelor of arts);
2. Those who intend to apply mathematics in other disciplines such as the physical sciences, the life sciences, or business and industry;
3. Prospective teachers of mathematics at the elementary or secondary school levels;
4. Those who seek fulfillment of a degree requirement;
5. Those who seek fulfillment of a teaching certificate requirement; and
6. Those who enjoy the stimulation and satisfaction derived from the study of mathematics.

Freshmen who are interested in mathematics as a major usually take MATH 103-104; however, appropriate advanced placement is possible.

C S	131	Fundamentals of Programming	3
MATH	103-104	Calculus I, II	6
MATH	260W	Mathematical Reasoning and Proof	3
MATH	301	Differential Equations	3
MATH	307	Linear Algebra	3
MATH	451W	Senior Research	3
MATH	405	Abstract Algebra	3
MATH	407	Advanced Calculus	3
Twelve hours from:			12
MATH	211	Calculus III	
MATH		Other MATH courses 300 and above	
STAT		STAT Courses 300 and above	
<i>Total Hours Required</i>			<u>39</u>

MATHEMATICS MINOR

MATH	103-104	Calculus I, II	6
MATH	260W	Mathematical Reasoning and Proof	3

Nine hours from:

MATH 211

Calculus III

MATH

Other MATH courses 300 and above

Total Hours Required

Hours

9

18**MUSIC MAJOR **This major will not be available after 9/1/24****

Within the liberal arts framework, both the music major and the music education major offer a Bachelor of Arts degree, intended for students who wish a broad education in music. In addition, the music education major (instrumental or vocal emphasis) is intended for students who wish to become music educators. Students are expected to have a high level of musical competence in performance of their major instrument.

Admission to the Music Major

Freshmen who express interest in majoring/minoring in music or music education should follow the appropriate music curriculum and receive advising from the Music department chair. Students apply for sophomore promotion (major standing jury) during their sophomore year of study. A successful sophomore promotion will result in admission to the music major.

Transfer students who enter the University of Lynchburg with sixty or more accepted credits must apply for promotion during their first semester at the University. Approval for major standing may be granted after that first semester or the music faculty may defer final action until the end of the student's second semester of study. With the exception of transfer students who enter the University of Lynchburg with sixty credits or more, no deferrals on major standing are given after the student has completed seventy credits.

Sophomore Promotion (Major Standing Jury)

Students majoring in music must successfully complete a qualifying review by the music faculty at the end of the sophomore year. Major standing juries for the Bachelor of Arts in music and music education occur after the final week of classes each semester.

The jury will consist of a performance on the student's major instrument. Several pieces should be fully prepared from which the jury can select two pieces to hear. The result of a major standing jury may be 1) approval, 2) deferral, or 3) denial.

MUSC	104	Introduction to Music Theory and Aural Skills	3
MUSC	105	Diatonic Harmony	3
MUSC	107	Intermediate Aural Skills	1
MUSC	108-109*	Piano Class I, II	2
MUSC	111	Music Technology	1
MUSC	204	Chromatic Harmony and Commercial Music	3
MUSC	206-207	Advanced Aural Skills I, II	2
MUSC	210W	Form and Post-Tonal Analysis	3
MUSC	249	Rehearsing from the Podium	3
MUSC	302W-303	Music History and Literature I, II	6
MUSC	399	Internship in Music	3
MUSC	402W	Senior Seminar in Music Performance	2

* Piano Proficiency Exam may substitute for these courses.

Ensemble: 6

A maximum of two ensembles may be taken for credit per semester.

Large Ensembles:

MUSC	018	Orchestra
MUSC	021	Wind Symphony
MUSC	022	Concert Choir
MUSC	025	Choral Union

Small Ensembles:

MUSC	016	Percussion Ensemble
MUSC	017	Brass Ensemble
MUSC	019	Chamber Music Ensemble
MUSC	020	Jazz Ensemble
MUSC	023	Handbell Choir
MUSC	024	Chamber Choir
MUSC	027	Opera Workshop

Applied Music Lessons:

Students majoring in music are required to choose a major instrument for applied study. Four of the six credits of applied music lessons must be taken on their chosen major instrument.

MUSC	001	Piano
MUSC	002	Organ
MUSC	003	Voice
MUSC	004	Woodwinds
MUSC	005	Brass
MUSC	006	Percussion
MUSC	007	Strings
MUSC	008	Composition
MUSC	010	Guitar

Other requirements:

Concert Attendance - For details, consult the Music Undergraduate Handbook

Total Hours Required

44**NEUROSCIENCE MINOR**

The minor in neuroscience is an interdisciplinary course of study that will provide students with an understanding of the neural mechanisms underlying behavior. Students will be encouraged to take basic and advanced courses in pure and applied neuroscience. Students from many different majors will find the scope of courses addressing brain and behavior enlightening and practical for their future careers. Students will come to understand that neuroscience spans many levels, including the molecular to the psychological in both humans and other animals.

Neuroscience, also known as neural science, is the study of how the nervous system develops, its chemistry and structure, and how it influences physiology and behavior. Neuroscientists study the development and function of the nervous system, which includes the brain, spinal cord, and nerves throughout the body. Neu-

roscentists also specialize in one part of the nervous system, such as neurotransmitters, or focus their research on specific behaviors, such as psychiatric disorders (e.g., depression)

Required courses:			Hours
BIOL	114	Cells: Genetic and Molecular Perspectives	4
PSYC	111	An Introduction to Psychological Science	4
PSYC	355	Behavioral Neuroscience	4
PSYC	356	Human Neuropsychology	4
Elective Courses:			9-12
Select 3 courses (at least one must be from each category below):			
Basic Principles			
BIOL	224	Human Anatomy and Physiology I	
BIOL	256	Genetics	
BIOL	332	Vertebrate Anatomy	
CHEM	320	Biochemistry I	
Applied Principles			
BIOL	345	Animal Behavior	
PHIL	314W	The Mind and Brain	
PSYC	315	Drugs and Behavior	
PSYC	344	Cognitive Psychology	
PSYC	353	Sleep and Circadian Rhythms	
<i>Total Hours Required</i>			<u>25-28</u>

* Students need to work with their advisor to establish prerequisites for the courses above.

PHILOSOPHY MAJOR

In addition to providing a sound understanding of the major branches of philosophy, this program should be helpful for any student who wishes to develop his or her ability to analyze, interpret, evaluate, and communicate persuasively. The philosophy major is excellent preparation for many careers, such as law, business, and teaching. The major is also a strong complement to many other majors that offer preparation for specific careers. The philosophy major is required to write a thesis in the senior year.

PHIL	201	Introduction to Logic	3
PHIL	204W	Ethics	3
PHIL	214W	Greek Philosophy	3
PHIL	216	Modern European Philosophy	3
PHIL	306W	Knowledge and Reality	3
PHIL	400W	Thesis Guidance	3
PHIL		Other PHIL courses 200 and above	<u>12</u>
<i>Total Hours Required</i>			30

PHILOSOPHY MINOR

PHIL	201	Introduction to Logic	3
PHIL	204W	Ethics	3
PHIL		Other PHIL courses 200 and above	<u>12</u>
<i>Total Hours Required</i>			18

PHILOSOPHY-POLITICAL SCIENCE MAJOR

The philosophy-political science major is recommended for students who have an interest in a wide variety of careers including, but not limited to, law, public service, policy analysis, teaching, and journalism. The curriculum focuses on an analysis of primary texts, as well as developing and applying critical thinking skills. Every student is required to write a senior thesis. The major should be declared by the second semester of the sophomore year. For a joint major in philosophy-political science, a student must complete twenty-one semester hours in philosophy and eighteen semester hours of political science as listed below.

PHIL	201	Introduction to Logic	3
PHIL	204W	Ethics	3
PHIL	214W	Greek Philosophy	3
PHIL	216	Modern European Philosophy	3
PHIL	400W	Thesis Guidance	3
PHIL		Other PHIL courses 200 and above	6
POLI	220	The American Political Experience	3
POLI	253	Classical Political Thought	3
POLI	254	Modern Political Thought	3
POLI	255	Recent Political Thought	3
POLI		Other POLI courses 200 and above	<u>6</u>
<i>Total Hours Required</i>			39

PHYSICS MAJOR ****This major will not be available after 9/1/24****

The physics major is designed to provide solid preparation for technical employment or for graduate study in physics. The major will also prepare prospective secondary teachers to teach physics and will provide a suitable path for local students who want to complete a four-year technical degree, but who cannot leave local employment to do so. In addition, the physics major provides an ideal path for students interested in pursuing careers in various types of engineering.

The mission of the program is to provide:

1. Through support of the University's General Education Program, an introduction to the history, thought, and techniques, that distinguish physics as a discipline central to the sciences;
2. Physics curricula that thoroughly ground participating students in the core competencies expected of physics graduates; and
3. Physics curricula that stress the ability to read, calculate, write, and speak effectively about specific physics topics.

Students completing the B.S. major in physics will:

1. Demonstrate conceptual knowledge in the core physics courses outlined below;
2. Demonstrate competence in the application of the methods, techniques, and equipment used in the physical laboratories;
3. Demonstrate knowledge of research methodology in the physical sciences, including the use of appropriate research literature;
4. Demonstrate competence to apply basic concepts to solve physics problems, including those which require mathematics through differential equations; and
5. Obtain information on a general or specialized topic within the physical science disciplines and communicate that information orally and in writing.

			Hours
MATH	103	Calculus I	3
MATH	104	Calculus II	3
MATH	211	Calculus III	3
MATH	301	Differential Equations	3
PHYS	161	Physics I	4
PHYS	162	Physics II	4
PHYS	211	Physics III	4
PHYS	302	Physics IV	4
PHYS	309	Classical Mechanics	4
PHYS	312	Electromagnetic Theory	4
PHYS	333W	Computational Physics	4
PHYS	355	Electronics	2
PHYS	397	Independent Study in Physics	4
PHYS		Other PHYS courses 300 and above, excluding PHYS 397	<u>8</u>
		<i>Total Hours Required</i>	54

POLITICAL SCIENCE MAJOR

The political science major has four basic objectives: to explore the nature of politics—its purposes, limitations, and significance; to promote understanding of the various forms of political regimes and movements; to examine current trends and persistent patterns in the relations of nation-states; and to develop a capacity for intelligent evaluation of public policies and an awareness of opposing points of view. Throughout, the major emphasizes moral questions in politics and the place of fundamental ideas about human nature, justice, and the purposes of government.

Introductory sequence:

POLI	111	Quest for Justice	3
POLI	112	Quest for Power	3

Upper-level courses:

POLI	220	The American Political Experience	3
POLI	321W	Political Science Research Methods	3
POLI	410W	Senior Thesis Seminar	3

American politics:

POLI	221	American Political Culture	6
POLI	257	Campaigns, Elections, and Propaganda	
POLI	258	State and Local Government and Politics	
POLI	259	Power, the State, and Bureaucracy	
POLI	290	American Public Policy	
POLI	311	The American Presidency	
POLI	312	Money and Power: Congress and Interest Groups	
POLI	325	Constitutional Law in the United States I	
POLI	326	Constitutional Law in the United States II	

Political philosophy:

POLI	253	Classical Political Thought	3
POLI	254	Modern Political Thought	
POLI	255	Recent Political Thought	

Comparative politics:

INTL	301	Human Security in the Global South	3
POLI	207	Comparative Politics	
POLI	260	Honor and Terror Politics: South Asia	
POLI	265	Growling Tigers, Fiery Dragons: The Asia Pacific	
POLI	275	Latin American Politics	
POLI	283	European Union Politics	
POLI	296	Russia and the European Neighborhood	
POLI	303	Terrorism and Revolution	

International relations and foreign policy:

INTL	270	International Relations Theory	3
INTL	280	Security Studies in a Global Context	
POLI	304	International Organization and World Politics	
POLI	306	Comparative Foreign Policy	
POLI	331	National Model United Nations I	

POLI	372W	United States Foreign Policy	Hours
POLI	375	U.S. - Latin American Relations	
POLI		Other POLI courses not listed above	<u>6</u>
		<i>Total Hours Required</i>	36

The major should be declared by the second semester of the student's sophomore year. In cooperation with the School of Education, Leadership, and Counseling, the political science major offers a program that will certify graduates to teach government in the public schools.

POLITICAL SCIENCE MINOR

POLI	111	Quest for Justice	3
POLI	112	Quest for Power	3
POLI	220	The American Political Experience	3
POLI		Other POLI courses 200 and above	<u>9</u>
		<i>Total Hours Required</i>	18

PROFESSIONAL WRITING MINOR

This course of study prepares students for careers in writing and editing, but also complements their disciplinary study in other fields (e.g., business, science, etc.) that rely on written communication to disseminate knowledge and reach and influence multiple and often diverse audiences. Students learn to analyze a variety of writing situations and to write in an effective and ethical manner in a range of organizational contexts.

ENGL	203W	Expository Writing	3
ENGL	210	Writing in the Workplace	3
Electives:			12
ENGL	205	Introduction to Creative Writing	
ENGL	206W	Fantasy and Science Fiction Writing	
ENGL	207W	Technical Writing in the Healthcare Industry	
ENGL	208W	Science Writing for a General Audience	
ENGL	209W	Nature Writing	
ENGL	223W	Writing for Publication	
ENGL	308W	English for Life	
ENGL	315W	English Grammar	
ENGL	346	Creative Writing Non-Fiction	
ENGL	399	Internship in English	
MEHU	201	Narrative Health	
		<i>Total Hours Required</i>	<u>18</u>

PSYCHOLOGICAL SCIENCE MAJOR - COUNSELING PSYCHOLOGY EMPHASIS

Core courses:			
PSYC	111	An Introduction to Psychological Science	4
PSYC	274	Statistics for Psychologists	4
PSYC	275W	Research Methodology	4
PSYC	308	Abnormal Behavior	3
Choose research or non-research capstone sequence:			5
PSYC	473W-474	Psychology Non-Research Capstone I-II	
PSYC	475W-476W	Psychology Research Capstone I-II	
Counseling courses:			6
PSYC	267	Theories of Psychotherapy	
PSYC	306	Theories of Personality	
One of the following:			3
PSYC	243	Psychology of Diversity	
PSYC	392	Psychological Assessment	
PSYC	367W	Child Psychopathology	
One of the following:			4
PSYC	355	Behavioral Neuroscience	
PSYC	356	Human Neuropsychology	
Two of the following:			6
PSYC	302	Social Psychology	
PSYC	312	Learning and Behavior	
PSYC	341W	Psychology of Development	
PSYC	344	Cognitive Psychology	
Additional courses:			6
*PSYC		At least two 200- or 300-level PSYC courses, including PSYC 399	
		<i>Total Hours Required</i>	<u>45</u>

*Only three hours of internship are allowed towards the major.

PSYCHOLOGICAL SCIENCE MAJOR - FORENSIC PSYCHOLOGY EMPHASIS

Core courses:			Hours
PSYC	111	An Introduction to Psychological Science	4
PSYC	274	Statistics for Psychologists	4
PSYC	275W	Research Methodology	4
PSYC	308	Abnormal Behavior	3
Choose research or non-research capstone sequence:			5
PSYC	473W-474	Psychology Non-Research Capstone I-II	
PSYC	475W-476W	Psychology Research Capstone I-II	
Forensic courses:			9
PSYC	263	Psychology of Law	
PSYC	302	Social Psychology	
CRIM	201	Criminology	
CRIM	321	Child Abuse and Exploitation	
One of the following:			4
PSYC	355	Behavioral Neuroscience	
PSYC	356	Human Neuropsychology	
Two of the following:			6
PSYC	306	Theories of Personality	
PSYC	310	Inside the Mind of a Psychopath	
PSYC	392	Psychological Assessment	
PSYC		At least two 200- or 300-level CRIM courses	6
<i>Total Hours Required</i>			45

PSYCHOLOGICAL SCIENCE MAJOR - GENERAL PSYCHOLOGY EMPHASIS

Studies in the liberal arts provide the context in which psychology programs are conducted. The following are guiding principles for programs in psychology:

1. To provide the student with a well-rounded foundation based upon a theoretical and conceptual understanding of psychology as a science;
2. To introduce the student to the various research methodologies and techniques used within the discipline to gain an understanding of behavior;
3. To prepare the student for further graduate study in psychological science and related disciplines;
4. To prepare the student for careers in psychological science and related areas.

PSYC	111	An Introduction to Psychological Science	4
PSYC	274	Statistics for Psychologists	4
PSYC	275W	Research Methodology	4
PSYC	308	Abnormal Behavior	3
Choose research or non-research capstone sequence			5
PSYC	473W-474	Psychology Non-Research Capstone I-II	
PSYC	475W-476W	Psychology Research Capstone I-II	
Three of the following:			9
PSYC	215	Health Psychology	
PSYC	288	Positive Psychology	
PSYC	315	Drugs and Behavior	
PSYC	353	Sleep and Circadian Rhythms	
One of the following:			4
PSYC	355	Behavioral Neuroscience	
PSYC	356	Human Neuropsychology	
Two of the following:			6
PSYC	302	Social Psychology	
PSYC	312	Learning and Behavior	
PSYC	341W	Psychology of Development	
PSYC	344	Cognitive Psychology	
Additional courses:			6
*PSYC		At least two 200- or 300-level PSYC courses, including PSYC 399	
<i>Total Hours Required</i>			45

*Only three hours of internship are allowed towards the major.

Students are encouraged to take other electives available in the program to best meet individual goals. Students wishing to pursue doctoral studies in psychological sciences are encouraged to consider one or more of the following: PSYC 399 Internship, PSYC 397 Independent Study, or Honors in Psychology. The student must work closely with an advisor in the program to select courses appropriate for his/her goals and interests.

PSYCHOLOGICAL SCIENCE - SPORTS PSYCHOLOGY EMPHASIS

Core courses:			Hours
PSYC	111	An Introduction to Psychological Science	4
PSYC	274	Statistics for Psychologists	4
PSYC	275W	Research Methodology	4
PSYC	308	Abnormal Behavior	3
Choose research or non-research capstone sequence:			5
PSYC	473W-474	Psychology Non-Research Capstone I-II	
PSYC	475W-476W	Psychology Research Capstone I-II	
Sports psychology courses:			
BIOL	224	Human Anatomy and Physiology I	4
BIOL	225	Human Anatomy and Physiology II	4
HPE	303W	Human and Motor Development	3
HPE	304W	Sports, Exercise, and Performance Psychology	3
PSYC	341W	Psychology of Development	3
One of the following:			3
H P	292	Psychosocial Health	
PSYC	215	Health Psychology	
PSYC	288	Positive Psychology	
One of the following:			3
*EXPH	325	Physiology of Exercise	
EXPH	380	Kinesiology	
SPMG	265	Gender and Sport: Issues and Controversies	
SPMG	285	Sport in American Society	
One of the following:			4
PSYC	355	Behavioral Neuroscience	
PSYC	356	Human Neuropsychology	
Two of the following:			6
PSYC	243	Psychology of Diversity	
PSYC	267	Theories of Psychotherapy	
PSYC	302	Social Psychology	
PSYC	306	Theories of Personality	
PSYC	344	Cognitive Psychology	
<i>Total Hours Required</i>			<u>53</u>

* Strongly recommended

PSYCHOLOGICAL SCIENCE MINOR

PSYC	111	An Introduction to Psychological Science	4
PSYC		Other PSYC courses 200 and above	<u>12</u>
<i>Total Hours Required</i>			16

RELIGIOUS STUDIES MAJOR **This major will not be available after 9/1/24**

The academic study of religion at the University of Lynchburg is undertaken as part of a liberal arts program in the area of the humanities. The faculty seeks to introduce students to a broad understanding of the nature of religion in various Western and Eastern religious traditions. Current courses present the various ways religion has been practiced, organized, and studied. Study focuses on the role of religion in culture by analyzing texts and institutions from both traditional and popular religious movements. Courses are designed to motivate students to reflect on the social and moral significance of religious traditions of the past and present. All students who are interested in examining religion as a phenomenon in human experience are encouraged to include religious studies in their academic program. Students who intend to enroll in a graduate professional school in religion or theology are encouraged to major in religious studies. Through its Advisory Committee on Pre-Ministerial Education, University of Lynchburg exercises a cooperative relationship with persons serving in a variety of ministries in supervising the pre-seminary education of students preparing for a ministerial vocation.

The religious studies major requires completion of thirty semester hours, at least eighteen of which are in courses numbered above 300. All religious studies majors must take at least three semester hours of 300-level courses in each of the following areas: biblical studies, world religions, and theological/ ethical studies. They must also take at least three credit hours of experiential learning and RELG 410W, the Senior Seminar.

Biblical studies:			6
RELG	201W	Old Testament	
RELG	202W	New Testament	
RELG	316	Jesus and Judaism	
RELG	318	The Biography of Satan	
World religions:			6
RELG	205W	Religions of Asia	
RELG	206W	Judaism, Christianity, and Islam	
RELG	303W	Seminar in Religions of Asia	
RELG	304W	Seminar in Islam	
SOCI	214	Religion, Symbols, and Culture	

			Hours
Theological/ethical studies:			6
PHIL	222W	God, Faith, and Evil	
RELG	211W	Comparative Religious Ethics	
RELG	305	Seminar in Religion in America	
RELG	322W	Contemporary Religious Thinkers	
Experiential Learning*:			3
RELG	377	Study Abroad	
RELG	387	Domestic Study Away	
RELG	399	Internship in Religious Studies	
Senior seminar:			3
RELG	410W	Senior Seminar	
Electives:			6
PHIL	222W	God, Faith, and Evil	
RELG	207W	Religion, Body, and Health	
RELG	211W	Comparative Religious Ethics	
RELG	213W	Reading, Gods, Words	
RELG		Other RELG courses	
SOCI	214	Religion, Symbols, and Culture	
<i>Total Hours Required</i>			<u>30</u>

*RELG 200 level courses that are offered as Study Abroad or Study Away can also fulfill the experiential learning requirement with the submission of a waiver.

SOCIOLOGY MAJOR

Students who major or minor in sociology will increase their knowledge of social processes, social behavior, and social institutions. Sociology involves the investigation of a number of key areas of social life, and examines their interrelatedness. Students completing the sociology major will be equipped with a body of knowledge and set of skills that are critical for twenty-first century employment and/or graduate studies in a variety of academic and professional fields such as criminal justice, cultural studies, gerontology, law, market research, media, public policy, and social services.

Students in the sociology major take four core courses; select one course from within each of the three focus areas; and select three sociology elective courses (200 level and above). Students in the sociology minor take three core courses, and select three sociology elective courses (200 level and above). Students are encouraged to seek direction from a sociology faculty member to select the focus area courses and the elective courses that fit their specific scholarly interests and career aspirations.

Sociology core courses:			
SOCI	201	Social Life in America	3
SOCI	277	Social Research Methods and Statistics	3
SOCI	358W	Social Theory	3
SOCI	430W	Senior Research Capstone	3
Cultural Studies:			3
SOCI	203	Culture, Identity, and Consumption	
SOCI	214	Religion, Symbols, and Culture	
SOCI	233	Music, Culture, and Representation	
SOCI	253	Globalization and Cinema	
SOCI	339	Sociology of the South	
Individuals, Families, and Society:			3
SOCI	231	Marriage and the Family	
SOCI	245	The Individual in Society	
SOCI	256	Deviance, Crime, and Social Control	
SOCI	267	Family Violence: A Sociological Perspective	
SOCI	363	Sociology of the City	
Inequality, Diversity, and Social Change:			3
SOCI	209	Applied Sociology	
SOCI	221	Cultural Anthropology	
SOCI	222	Sociology of Race and Ethnicity	
SOCI	225	Poverty, Homelessness, and Social Justice	
SOCI	247	Gender and Society	
SOCI	264	Social Inequality and Oppression	
Electives:			
SOCI		Other SOCI course 200 and above	<u>9</u>
<i>Total Hours Required</i>			<u>30</u>

SOCIOLOGY MINOR

SOCI	201	Social Life in America	3
SOCI	277	Social Research Methods and Statistics	3
SOCI	358W	Social Theory	3
SOCI		Other SOCI courses 200 and above	<u>9</u>
<i>Total Hours Required</i>			<u>18</u>

SPANISH MAJOR **This major will not be available after 9/1/24**

Students who major in Spanish should take supporting courses in Spanish and/or Latin-American culture, literature, history, and civilization. It is also highly recommended that majors spend a year, a semester, a summer term, or a winter term studying in Spain or Latin America.

Core courses:			Hours
SPAN	201	Intermediate Spanish I	3
or			
SPAN	205	Intermediate Spanish I - Medical	
SPAN	202	Intermediate Spanish II	3
SPAN	221	Advanced Language Practice: Conversation	3
SPAN	222W	Advanced Language Practice: Composition	3
Spanish electives:			15-18
SPAN	208W	Hispanic Literature in English Translation	
SPAN	311	Cinema in Spanish	
SPAN	340	The Culture and Civilization of Latin America	
SPAN	341	The Culture and Civilization of Spain	
SPAN	351	Introduction to Spanish Linguistics	
SPAN	377	Study Abroad	
SPAN	397	Independent Study in Spanish	
SPAN	398	Special Topics in Spanish	
SPAN	399	Internship in Spanish	
SPAN	441	Advanced Conversation and Culture through Spanish Language Resistance Music	
SPAN	442	Advanced Conversation and Culture through Documentary Film in Spanish	
SPAN	460W	Literature in Spanish: Latin America	
SPAN	461W	Literature in Spanish: Spain	
SPAN	470	Methodology of Teaching Second Languages	
SPAN	478	Honors Thesis	
Additional Electives:			0-3
HIST	275	Latin American History	
HIST	375	History of Love and Sex in Latin America	
INTL	320	African Diaspora	
POLI	275	Latin American Politics	
POLI	375	U.S. – Latin American Relations	
<i>Total Hours Required</i>			<u>30</u>

Note: Only one course taught in English may be used to satisfy the requirements for the Spanish major.

SPANISH MINOR

SPAN	201	Intermediate Spanish I	3
or			
SPAN	205	Intermediate Spanish I - Medical	
SPAN	202	Intermediate Spanish II	3
SPAN	221	Advanced Language Practice: Conversation	3
SPAN	222W	Advanced Language Practice: Composition	3
SPAN		Other SPAN courses above the SPAN 205 level	<u>6</u>
<i>Total Hours Required</i>			18

STATISTICS AND DATA SCIENCE MAJOR

Statistics and Data Science is the science of learning from data. It is concerned with the collection, analysis, and interpretation of data, as well as the effective communication and presentation of these results. Statisticians can work in virtually any field, from business and social science to biology and medicine. The statistics and data science curriculum is designed to provide students with the broad range of core competencies required of all Statistics professionals, as well as the opportunity to acquire an understanding of selected advanced topics.

C S	131	Fundamentals of Programming	3
MATH	103-104	Calculus I, II	6
MATH	311	Introduction to Probability Theory	3
STAT	222	Introductory Statistics	3
STAT	305	Data Handling for Statistics	3
STAT	333	Mathematical Statistics	3
STAT	400W	Statistical Methods	3
Two of the following:			6
STAT	300	Applied Data Analysis	
STAT	302	Introduction to Statistical Inference	
STAT	325	Applied Regression	
One of the following:			3
STAT	399	Internship in Statistics	
STAT	451W	Senior Data Science Project	

Electives:			Hours
C S		Other C S courses	6
MATH		Other MATH courses 200 and above	
STAT		Other STAT courses 300 and above	
		<i>Total Hours Required</i>	<hr/> 39

STUDIO ART MINOR

ART	125	Design Fundamentals I	3
ART	225	Design Fundamentals II	3
Twelve hours from:			12
ART	110	Introduction to Visual Art	
ART	118	Ceramics I	
ART	122	Sculpture I	
ART	156	Drawing: Techniques and Traditions	
ART	161	Plein Air Painting	
ART	162	Painting: Techniques and Traditions	
ART	166	Photography	
ART	218	Ceramics II	
ART	222	3-D Forms and Space II	
ART	256	Drawing: Concepts and Innovations	
ART	262	Painting: Illusion and Beyond	
ART	266	Darkroom Photography	
ART	267	Photojournalism	
ART	275	Introduction to Animation	
ART	313	Advanced Digital Photography	
ART	316	Introduction to Printmaking	
ART	322	Advanced 3-D Forms and Space	
ART	356	Advanced Studio Studies: Drawing	
ART	357	Figure Drawing	
ART	362	Advanced Studio Studies: Painting	
ART	366	Alternative Process Photography	
ART	397	Independent Study in Art	
*ART	399	Internship in Art	
		<i>Total Hours Required</i>	<hr/> 18

* Only three hours of internship can count towards the minor.
The choice of courses must be made in consultation with an art program advisor.

SUSTAINABILITY STUDIES MINOR

ENVS	111	Environmental Sciences and Sustainability I	4
ENVS	112	Environmental Sciences and Sustainability II	4
Choose from:			3-4
SUST	340	Environmental and Climate Justice	
SUST	350	Environmental Law	
SUST	360	Sustainability in Practice	
Elective:			6-7
BUAD	222	Ethical Dilemmas in Business and Leadership	
ECON	255	Environmental Economics	
ENGL	209W	Nature Writing	
ENGL	292W	Literature and Nature	
H P	221	Global Health	
HIST	256	America Since 1877	
PHIL	225	Environmental Ethics	
POLI	290	American Public Policy	
SOCI	203	Culture, Identity, and Consumption	
SUST		Other SUST courses 300 and above	
		<i>Total Hours Required</i>	<hr/> 18

THEATRE MAJOR **These majors will not be available after 9/1/24**

The theatre major has been designed for students who wish to pursue careers in an array of arts, entertainment, and teaching areas. Graduates will be qualified for professional entry-level jobs, and as strong candidates for graduate and professional schools. The core theatre major exists for those students wishing to double major or for broad exposure to the totality of theatre art. Students may also select an emphasis in performance or design-technology.

The performance emphasis focuses on an integrative process that sets an actor in motion physically, verbally, and emotionally, leading to creative and informed choices in character development and dramatic texts.

The design/technical emphasis focuses on the development of the artistic abilities required for production in theatre arts. Students learn theory and skills in the areas of lighting, sound, scenery, props, management, and other related positions.

Students actively apply their classroom education by participating in the University's main stage theatre productions, student-generated productions in the studio theatre, dance concerts, and through scenic, lighting, costume, and box-office student employment opportunities. Students regularly interview, audition for, and find work in professional summer theatres. Auditions and backstage opportunities in productions are open to all students regardless of major or class standing.

THEATRE MAJOR-DESIGN/TECHNICAL EMPHASIS **This major will not be available after 9/1/24**			Hours
THEA	131	Fundamentals of Acting	3
THEA	202	Technical Theatre	3
THEA	210	Drafting for the Theatre	3
THEA	211	Theatre History and Literature I	3
THEA	212W	Theatre History and Literature II	3
THEA	331	Scene Design	3
THEA	333	Lighting Design	3
THEA	340	Theatre Management	3
THEA	390	Theatre Practicum	3
THEA	410	Senior Project	3
Theatre electives:			12
THEA		Other THEA courses 200 and above	
<i>Total Hours Required</i>			42

THEATRE MAJOR-GENERAL EMPHASIS **This major will not be available after 9/1/24**			
THEA	131	Fundamentals of Acting	3
THEA	202	Technical Theatre	3
THEA	211	Theatre History and Literature I	3
THEA	212W	Theatre History and Literature II	3
THEA	390	Theatre Practicum	3
THEA	410	Senior Project	3
THEA		Other courses	<u>18</u>
<i>Total Hours Required</i>			36

THEATRE MAJOR-PERFORMANCE EMPHASIS **This major will not be available after 9/1/24**			
THEA	120	Introduction to Dance	3
THEA	123	Voice and Diction	3
THEA	131	Fundamentals of Acting	3
THEA	202	Technical Theatre	3
THEA	211	Theatre History and Literature I	3
THEA	212W	Theatre History and Literature II	3
THEA	232	Script and Character Analysis	3
THEA	315	Advanced Acting	3
THEA	390	Theatre Practicum	3
THEA	410	Senior Project	3
Theatre electives:			12
THEA		Other THEA courses 200 and above	
<i>Total Hours Required</i>			42

WEB DESIGN AND DEVELOPMENT MINOR

ART	125	Design Fundamentals I	3
ART	154	Introduction to Graphic Design	3
ART	245	Web Design	3
C S	370	Database Management Systems	3
C S	385	Internet Programming	3
Choose one from the following:			3-4
C S	131	Fundamentals of Programming	
C S	141	Introduction to Computer Science and Structured Programming I	
<i>Total Hours Required</i>			18-19

WESTOVER HONORS PROGRAM

The University of Lynchburg Westover Honors Community, which includes a variety of curricular and co-curricular features, is open to approximately sixty students in each class. To be considered as a candidate for Westover Honors, students must have a GPA of 3.75 or above and show evidence of success in rigorous academic coursework. Students already enrolled at the University may apply to the program if their academic performance is outstanding.

The purpose of the Westover Honors Community is to attract, stimulate, challenge, and fulfill academically gifted students. Westover Honors offers an innovative approach to general education and prepares students to excel in a world characterized by widespread and rapid change. Westover Honors offers a challenging curriculum that promotes intellectual curiosity and independent thought and places strong emphasis on creative problem solving and critical thinking.

The Westover Honors Community is a learning community that provides formal and informal opportunities for interaction of individuals with shared values and vision. It seeks to foster an environment of trust and mutual respect that encourages the free exchange of ideas and the willingness to take risks. Westover Honors students (called "Fellows") complete a special general education curriculum of 38-39 hours.

As freshmen and sophomores, Westover Honors Fellows enroll in a series of interdisciplinary seminars in humanities, fine arts, science, and social science. These seminars explore specific topics in detail, with an emphasis on primary readings and in-class discussions. As juniors and seniors, Westover Honors Fellows enroll in special colloquia and work closely with advisors in their major fields on independent research projects. (See course listings under HONORS.)

The program also offers a variety of enrichment experiences including speakers, films, and trips. Freshman Westover Fellows have the option of living with other first-year Fellows in the first-year experience residence hall. Sophomores also have the option of living in the Residential Learning Community of Westover Fellows in Westover Hall.

Students interested in applying to the Westover Honors Community should contact the Office of Enrollment Services or the Westover Honors director.

Westover Fellows' General Education requirements include:			Hours
HONR	100	Westover World	1
HONR	103W	Writing the World	3
HONR	110	Traditions and Revolutions	3
HONR	131	Globalization and its Discontents	3
HONR	211W	Exploring the Literary Landscape	3
HONR	212W	Reason and Responsibility	3
HONR	221	Imagination and Creation	3
HONR	451W	Senior Honors Project	3
Language and Intercultural Competency			3
ASL	101	American Sign Language I	
ASL	102	American Sign Language II	
ASL	201	Intermediate American Sign Language I	
ASL	202	Intermediate American Sign Language II	
COMM	251	Intercultural Communications	
ENGL	323	Modern Multicultural Literature	
ENGL	337	American Multi-Ethnic Literature	
HIST	205	Music and Revolution	
HIST	243	Contemporary Africa	
HIST	344	History of Women in the Americas	
HIST	379	History of Politics and the Middle East and North Africa	
HIST	275	Latin American History	
INTL	101	Global Politics	
INTL	213	World Regional Geography	
INTL	320	African Diaspora in Latin America and the Caribbean	
LATN	101	Elementary Latin I	
LATN	102	Elementary Latin II	
LATN	103	Elementary Latin I with Medical Terminology	
LATN	105	Elementary Latin II with Medical Terminology	
LATN	201W	Intermediate Latin I	
LATN	202W	Intermediate Latin II	
LATN	205W	Intermediate Latin I – Medical	
MUSC	102	World Music and Culture	
POLI	265	Growling Tigers, Fiery Dragons: The Asia Pacific	
POLI	296	Russia and the European Neighborhood	
POLI	375	U.S.-Latin American Relations	
PBHL	221W	Global Health	
RELG	205W	Religions of Asia	
RELG	206W	Judaism, Christianity, and Islam	
RELG	211W	Comparative Religious Ethics	
SOCI	233	Music, Culture, and Representation	
SOCI	253	Globalization and Cinema	
SPAN	101	Elementary Spanish I	
SPAN	102	Elementary Spanish II	
SPAN	201	Intermediate Spanish I	
SPAN	202	Intermediate Spanish II	
SPAN	205	Intermediate Spanish – Medical	
SPAN	208W	Hispanic Literature in English Translation	
Scientific Literacy (one course required)			4
BIOL	101	Biological Inquiry	
BIOL	224	Human Anatomy and Physiology I	
CHEM	111	Fundamentals of Chemistry I	
CHEM	127	The Chemistry of Life	
ENVS	111	Environmental Science and Sustainability I	
ENVS	112	Environmental Science and Sustainability II	
PHYS	131	Physics of Sports	
PHYS	141	College Physics I	
PHYS	161	Physics I	
PHYS	181	Astronomy: Solar System	
PHYS	182	Astronomy: Universe	
PSYC	111	An Introduction to Psychological Science	
Quantitative Reasoning (one course required)			3-4
BUAD	241	Business Statistics	
MATH	102	Precalculus	
MATH	103	Calculus I	
MATH	106	Liberal Arts Math	
PSYC	274	Statistics for Psychologists	
STAT	222	Introductory Statistics	

Six hours from:

HONR 341, 342, Honors Colloquia
 343, 344,
 345, 346

Total Hours Required

Hours

6

38-39

The suggested program for the first two years for Westover Honors Fellows is outlined below. It includes:

	<u>FALL</u>			<u>SPRING</u>		
Freshman:	HONR 100	1 hr		HONR 131	3 hrs	
	HONR 103W	3 hrs		Major/Elect	10-13 hrs	
	HONR 110	3 hrs				
	Major/Elect	3-9 hrs				
Sophomore:	HONR 211W	3 hrs		HONR 212W	3 hrs	
	HONR 221	3 hrs		Major/Elect	9-13 hrs	
	Major/Elect	10 hrs				

In the junior and senior years, Westover Honors Fellows concentrate on their majors, as they complete six hours of Westover colloquia and their senior thesis project. NOTE: 300-level honors courses are open on a space available basis to non-Westover students on the Dean's List, with consent of the instructor and approval of the Westover Honors Community director.

SCHOOL OF MEDICINE AND HEALTH SCIENCES

Dean: Dr. Jenna Rolfs

Associate Dean: Dr. Debbie Bradney

Exercise Physiology Faculty: Dr. Collins, Dr. Herrick, Dr. Kremer, Dr. Lucas

Nursing Faculty: Dr. Braud, Ms. Chambers, Ms. Foster, Dr. Kopsis, Ms. Lutz, Ms. Pribble, Ms. Shin, Ms. Young, Ms. Yuille

Public Health Faculty: Dr. McKinney, Dr. Olsen, Dr. Price, Ms. Takacs

The School of Medicine and Health Sciences provides curricular and co-curricular activities for students who have career interests in healthcare, fitness and wellness professions. Within the School of Medicine and Health Sciences are the Exercise Physiology, Nursing, and Public Health departments. Through formal classroom instruction, guided practical experiences, and independent internships, faculty assist students with acquiring knowledge, building skills and competencies, and developing an appreciation for the importance of healthy lifestyles. Community initiatives allow students and faculty to be involved in a variety of activities that promote health and wellness.

Majors and Minors

Exercise Physiology Major

Nursing Major

Public Health Major

Public Health Minor

Sports Medicine Minor

EXERCISE PHYSIOLOGY MAJOR

The Exercise Physiology Department is committed to providing accurate and current information to prepare students pursuing this major to be future health professionals with career interests in the areas of health, fitness, and performance.

When combined with a strong liberal arts foundation, the major provides comprehensive coverage of theoretical and practical information necessary to pursue graduate school and/or careers in exercise physiology, strength and conditioning, fitness, and cardiac rehabilitation. The curriculum also provides pre-professional background for students interested in pursuing athletic training, physical therapy, occupational therapy, physician assistant, and other health-related professions.

Through a variety of practical learning opportunities, students experience “hands-on” application of the theory learned in the formal classroom setting. Faculty from multiple professional specializations promote diversity in teaching, research, and service activities that enrich student learning experiences. The exercise physiology program is accredited by the Commission on Accreditation of the Allied Health Education Programs (CAAHEP) and endorsed by the National Strength and Conditioning Association (NSCA) Education Recognition Program.

Entry into the exercise physiology major is competitive and all students who apply may not be accepted into the program.

Application and Deadlines:

1. Traditional students and transfer students who have not completed BIOL 224 and/or 225: Applications must be completed by April 1 of the academic year when BIOL 224 and BIOL 225 are taken.
2. Transfer students admitted to University of Lynchburg with credit for BIOL 224 and/or 225 or the equivalents: Applications must be completed by the end of the university add period for the semester of enrollment in EXPH 325.

Application Requirements:

1. Traditional students and transfer students who have not completed BIOL 224 or 225: Completion of or enrollment in the following courses with a grade of “C” or better: EXPH 100, EXPH 200, EXPH 225, BIOL 224, 225, and STAT 222.
2. Transfer students admitted to University of Lynchburg with credit for BIOL 224 and 225 or the equivalents: Completion of or enrollment in the semester of application for the following courses with a grade of “C” or better: EXPH 100, EXPH 200, EXPH 225, STAT 222, and EXPH 325.
3. Cumulative GPA of 2.25 or better.
4. Complete transcripts.
5. Good academic standing with the University.

Application Decisions:

1. Once all admission requirements are fulfilled, priority will be determined by the following ranking:
 - a. GPA in courses required for the exercise physiology major
 - b. Overall GPA
2. Students will be notified of admission decisions by June 15 of each year.
3. A one-time non-refundable professional fee is charged after acceptance into the Exercise Physiology major and must be paid prior to the start of classes for the next semester.
4. Students who have pre-registered for EXPH courses but are not admitted to the major should meet with their advisors to change their schedule for the upcoming year.

Retention Requirements:

1. Completion of all courses required for the exercise physiology major with a grade of C or better. If the student does not achieve the minimum grade of C, the student must retake the course at University of Lynchburg as soon as it is offered in the next fall or spring semester. If the course is offered sooner in the summer semester, the student may choose to take the course at that time. The student will be permitted one course repeat of any one required course to achieve a grade of C or better. The second time a student earns a grade below C in any course required for the exercise physiology major, the student will be dismissed from the exercise physiology program and will be required to withdraw from the major.
2. Minimum cumulative GPA of 2.25. Students earning less than a cumulative 2.25 GPA will be placed on probation for one semester. Failure to raise and maintain the cumulative GPA above 2.25 any semester following the semester of probation will result in the student being dismissed from the exercise physiology program and require them to withdraw from the major.
3. Completion of courses in recommended course sequence unless approved by the Department Chair.
4. Satisfactory behavior based on the University of Lynchburg Honor Code.
5. Maintenance of current CPR certification with proof of certification provided to the Department Chair while in the EXPH program.

Support courses:

			Hours
#BIOL	224	Human Anatomy and Physiology I	4
#BIOL	225	Human Anatomy and Physiology II	4
HPE	304W	Sport, Exercise, and Performance Psychology	3
#STAT	222	Introductory Statistics	3

Exercise Physiology courses:			Hours
#EXPH	100	Physiological Assessments in Exercise Physiology	3
#EXPH	200	Exploration in Exercise Physiology	3
#EXPH	225	Basic Emergency and Injury Care Management	3
EXPH	325	Physiology of Exercise	3
EXPH	326	Advanced Physiology of Exercise	3
EXPH	342	Laboratory Techniques in Exercise Physiology	3
EXPH	350W	Research Methods in Exercise Physiology	3
EXPH	355	Scientific Principles of Strength and Conditioning	4
EXPH	380	Kinesiology	3
*EXPH	415	Internship in Exercise Physiology	3
EXPH	425	Advanced Health and Fitness Evaluation and Programming	3
EXPH	426	Exercise Physiology of Special Populations	3
EXPH	435	Leadership and Professionalism for Exercise Physiologists	3
EXPH	470	Sports Nutrition	<u>3</u>
<i>Total Hours Required</i>			57

Minimum grade of C is required for this course prior to admission to the major.

* This major requires students to take EXPH 415 Internship in Exercise Physiology. Prerequisites for this course include junior or senior status, with a 2.25 minimum GPA, completion of EXPH 326, 342, 355 with grades of C or better, and approval of written proposal by internship coordinator, and supervising faculty prior to registration.

NURSING MAJOR

The mission of the nursing major is to provide a student centered liberal arts education that develops nurse leaders to equitably serve a diverse population in a dynamic healthcare system. Graduates of University of Lynchburg's nursing program will be able to:

1. Make appropriate nursing practice decisions using research and evidence based practice for persons of various ages and health states to promote and improve health care results.
2. Provide safe, patient-centered, culturally competent nursing care across the continuum for individuals, families, communities, and populations to promote health and disease prevention.
3. Communicate effectively with patients, families, colleagues, and professionals from other disciplines.
4. Demonstrate effective, ethical use of information technologies to perform and document safe, quality patient care.
5. Demonstrate excellence in writing skills and research by producing creative scholarship that expands nursing knowledge.
6. Positively influence health care outcomes through Interprofessional collaboration to accomplish patient health care goals.
7. Integrate knowledge of health care policies, systems management, and finance using innovative approaches to promote continuous quality improvement in health care settings.
8. Demonstrate professional behaviors and values to model the core attributes of the nursing profession and pursue practice excellence.

Program Values:

1. Civility
2. Clinical judgment
3. Communication
4. Compassionate care
5. Diversity, equity, and inclusion
6. Ethics
7. Evidence Based Practice
8. Health Policy

Application and Deadlines: Freshmen, Transfer, and Second Degree Students

1. Freshman students enter University of Lynchburg with an intended program goal of nursing should plan to apply in their second semester of their second year at University of Lynchburg. Applications are due by April 1.
2. Transfer and second degree applications will be reviewed on a rolling basis following receipt of transcripts.

Application Requirements: Current University of Lynchburg, Second Degree and Transfer Students

The following are the minimum requirements to apply for admission to nursing:

1. Completion of all general education credits/courses required (or equivalent) to complete the nursing four year plan, except DELL 400-level.
2. Candidates must maintain a 3.0, overall, GPA.
3. Completion of the following nursing prerequisite courses (or equivalent) with a minimum grade of "C".
 - a. BIOL 224 (with lab) Human Anatomy and Physiology I
 - b. BIOL 225 (with lab) Human Anatomy and Physiology II
 - c. CHEM 127 The Chemistry of Life
 - d. PBHL 275 Medical Terminology
 - e. PBHL 270 Nutrition
 - f. STAT 222 Introductory Statistics
 - g. PSYC 241 Developmental Psychology
4. ATI TEAS Test minimum total score of 58.7% (Proficient)
 - a. Testing will be in February and March of each academic year.
 - i. The test will be administered twice on the University of Lynchburg campus. Any additional TEAS testing will be outside of the institution and the responsibility of the student.
 - ii. Students may repeat the TEAS test twice (3 total attempts). Each student is limited to three attempts in a 6-month period with remediation strongly suggested between each attempt.
 - iii. Total score less than 58.7% after 3 attempts, when meeting other admission criteria, will be reviewed on an individual basis.

Admission Requirements

1. Once all admission requirements are fulfilled, priority will be determined by the following ranking:
 - a. Overall GPA

- b. Number of hours completed at University of Lynchburg
- c. TEAS score
- 2. Applications will be sent to all candidates that are admitted to the University and have declared nursing as their major.
- 3. Applicants will be notified of admission decisions by June 15 of each year.
- 4. Students who have pre-registered for nursing courses but are not admitted to the major should meet with their advisors to change their schedule for the upcoming year.
- 5. Meet the University of Lynchburg Nursing Essential Performance Standards and Functional Abilities for Nursing Students.
- 6. Criminal History Records Check must be completed as per the Virginia Board of Nursing.
- 7. Non-refundable nursing fees are due before beginning the nursing curriculum.
- 8. Complete requirements for clinical clearance.

Requirements for Continuing in the Nursing Program/Progression Policy

1. Students must maintain a 3.0 achieve a grade of B- or better in all nursing courses.
2. The school of nursing will use plus and minus grades and no final grade will be rounded upward. The grading scale is as follows:

A+ 97.00 to 100	B+ 87.00 to 89.99	C+ 77.00 to 79.99	D+ 67.00 to 69.99
A 93.00 to 96.99	B 83.00 to 86.99	C 73.00 to 76.99	D 63.00 to 66.99
A- 90.00 to 92.99	B- 80.00 to 82.99	C- 70.00 to 72.99	D- 60.00 to 62.99
			F 59.99 and lower

3. If a student is not successful in obtaining the required grades in nursing courses, the nursing student may repeat a course once if space is available.
4. If a nursing student fails to earn a minimum grade of B- on any two required nursing courses, or the same course twice, the student must withdraw from the nursing major.
5. A student receives the same grade in the skill/clinical as they do in the didactic portion of the class.
6. Specific policies and regulations for nursing majors and clinical practice are published in the course syllabi and /or the nursing student handbook.
7. Policies include having on file in our clinical management software with a complete list of immunizations, including hepatitis B, as well as drug screening. Prior to admission to the nursing program, a Criminal History Records Check must be completed as required by the Board of Nursing. Students are responsible for their own transportation to clinical sites.
8. A non-refundable professional fee and technology fee, charged upon entry to the pre-nursing courses and at the beginning of each nursing semester, covers skills lab (including simulation) supplies and standardized testing. There may be additional charges related to equipment or testing; these are listed in the Nursing Student Handbook and on the University of Lynchburg Nursing website. During the junior and senior years, the student will take a variety of tests to prepare for the NCLEX RN exam, which is required to practice.

The following are the nursing major requirements:

Prerequisites to the nursing major:

			Hours
#BIOL	224	Human Anatomy and Physiology I	4
#BIOL	225	Human Anatomy and Physiology II	4
#CHEM	127	The Chemistry of Life	4
#HP	270	Nutrition	3
#H P	275	Medical Terminology	3
#STAT	222	Introductory Statistics	3
#PSYC	241	Developmental Psychology	3

Nursing major courses:

^NRSG	300	Nursing Pharmacology	2
^NRSG	306	Foundations of Nursing	3
^NRSG	306L	Foundations of Nursing Lab	3
^NRSG	314	Clinical Judgment in Nursing	2
^NRSG	318/318L	Mental Health and Lab	4
^NRSG	319	Nursing Research	2
^NRSG	326	Pathophysiology	3
^NRSG	330/330L	Health Assessment and Lab	3
^NRSG	343	Care of Adults I	4
^NRSG	343L	Care of Adults I Lab	3
^NRSG	411	Improving Patient Outcomes	2
^NRSG	419	Transition to Practice	6
^NRSG	421/421L	Population Care and Lab	4
^NRSG	435/435L	Maternal/Newborn Nursing and Lab	4
^NRSG	436/436L	Pediatric Nursing and Lab	4
^NRSG	437	Nursing Leadership	3
^NRSG	443	Care of Adults II	4
^NRSG	443L	Care of Adults II Lab	3
		<i>Total Hours Required</i>	86

Minimum grade of C is required for this course.

^ Minimum grade of B- is required for this course.

PUBLIC HEALTH MAJOR

This major prepares students to work in a broad range of health-related professions, providing a foundation for the essential competencies of public health and health promotion. Service learning and hands-on, active learning opportunities built into the curriculum allow students to directly engage with diverse populations and apply their coursework to real-world settings. A unique feature of this major is an internship that provides students with an actual on-the-job experience that awards academic credit for working in public health and other health-related settings. Public Health students complete a combination of core and elective courses designed to provide an educational experience focused on developing skills to address public health issues, such as women's health, aging, nutrition, infectious and chronic disease, substance use, health disparities, global health, and many others. Upon completing the bachelor's degree, students are prepared to work in local, regional, national, or international public health agencies, medical facilities, social service agencies, and community-based organizations. Graduates also qualify for and are

encouraged to take various credentialing exams, such as Certified Health Education Specialist (CHES), National Board for Certified Health and Wellness Coaching (NBHWC), and the Certified Wellness Practitioner (CWP).

Support courses:			Hours
BIOL	224	Human Anatomy and Physiology I	4
BIOL	225	Human Anatomy and Physiology II	4
Health Promotion courses:			
PBHL	180	Introduction to Public Health and Health Promotion	3
PBHL	210	Health Disparities, Equity, and Advocacy	3
PBHL	215	Introduction to Environmental Health	3
PBHL	221	Global Health	3
PBHL	239	Dimensions of Health and Wellness	3
PBHL	270	Nutrition	3
PBHL	300	Substance Use and Behavior Management	3
PBHL	322	Health Aspects of Aging	3
PBHL	325	Human Diseases	3
PBHL	340	Women's Health	3
PBHL	365	Introduction to Epidemiology and Biostatistics	3
PBHL	371W	Research in Public Health and Health Promotion Studies	3
PBHL	405W	Contemporary Health Issues	3
PBHL	410	Professionalism, Leadership, and Ethics in Health Promotion	3
PBHL	415	Internship in Health Promotion	3
PBHL	420W	Health Program Planning	
One of the following:			3
PBHL	275	Medical Terminology	
PBHL	292	Psychosocial Health	3
<i>Total Hours Required</i>			<u>59</u>

It is highly recommended that public health majors choose additional courses to support the core requirements of the major. Students are encouraged to choose a minor from other disciplines such as applied statistics, biology, bioinformatics, community and nonprofit leadership criminal forensics, human services, international relations, leadership studies, medical humanities, neuroscience, psychological science, social influence and advocacy, sociology, Spanish, sports medicine, sustainability studies, or a combination of courses from various disciplines.

PUBLIC HEALTH MINOR

The health promotion minor supports students in developing a whole person and public/community health worldview, which is beneficial for a variety of disciplines. This minor is an excellent adjunct to any student's curriculum if they are planning to enter healthcare, public health, allied health professions, public policy, public administration, or criminology.

PBHL	180	Introduction to Public Health and Health Promotion	3
Choose five courses from the following:			15
PBHL	210	Health Disparities, Equity, and Advocacy	
PBHL	215	Introduction to Environmental Health	
PBHL	221	Global Health	
PBHL	239	Dimensions of Health and Wellness	3
PBHL	270	Nutrition	
PBHL	275	Medical Terminology	
PBHL	292	Psychosocial Health	
*PBHL	300	Substance Use and Behavior Management	
*PBHL	322	Health Aspects of Aging	
*PBHL	325	Human Diseases	
PBHL	340	Women's Health	
<i>Total Hours Required</i>			<u>18</u>

*Indicates course has a prerequisite, corequisite, or recommended course(s).

SPORTS MEDICINE MINOR

The broad goal of this minor is to provide students with the opportunity to acquire practical skills and knowledge that can be used in any healthcare field. A second objective is to give students resume-building experience to make them more marketable to graduate schools.

A T	100	Introduction to Athletic Training	3
BIOL	224	Human Anatomy and Physiology I	4
BIOL	225	Human Anatomy and Physiology II	4
Three of the following:			9
A T	175	Basic Athletic Training Skills	
A T	330	Assessment and Treatment of General Medical Conditions	
A T	350	Therapeutic Interventions	
EXPH	325	Physiology of Exercise	
HPE	303W	Human and Motor Development	
PBHL	275	Medical Terminology	
<i>Total Hours Required</i>			<u>20</u>

SCHOOL OF PROFESSIONAL AND APPLIED SCIENCES

School Dean: Dr. Stephen Smith

Associate School Dean: Dr. Gerald Prante

Accounting Faculty: Mr. Arrington, Ms. Glass

Communication Studies Faculty: Dr. Langett, Dr. Lewis, Mr. Noel, Dr. Robinson, Dr. Roux, Dr. Youra

Criminology Faculty: Dr. McCabe, Mr. Murphy, Dr. Wagner

Economics Faculty: Dr. Bennett, Dr. Prante, Dr. Schnur

Education Faculty: Mr. Abell, Dr. Beam, Dr. Bowman, Dr. Bruce, Dr. Dodge, Dr. Dunn, Dr. Gould, Dr. Hobson, Dr. Smith, Dr. Spaulding, Ms. Stinnett

Management Faculty: Dr. Angelis, Dr. Kyper, Dr. Nathan, Dr. Schimmoeller

Marketing Faculty: Dr. Nicovich, Dr. Schauer, Mr. Whitehouse

Sport Management Faculty: Dr. Pieper

The School of Professional and Applied Sciences (SPAS) offers several options for educator preparation at the undergraduate Level. Some programs that lead to licensure are accredited by the Commonwealth of Virginia. The Educator Preparation Program (EPP) of the University of Lynchburg includes the preparation of teachers in elementary education, PreK-12 health/physical education, Pre-K-12 secondary education (biology, chemistry, earth science, English, history/social sciences, mathematics). The Commonwealth of Virginia participates in certification reciprocity with Virginia and 46 other states. Eligibility for interstate reciprocity is based on completion of a specifically approved program as directed and delivered by the University of Lynchburg.

Candidates are required to successfully complete an approved background check prior to some courses with field assignments

Majors and Minors

Accounting Major

Accounting Minor

Biology Education Major

Business Administration Major

Business Minor

Chemistry Education Major

Coaching Minor

Communication Studies Major - Electronic Media Emphasis

Communication Studies Major - Journalism Emphasis

Communication Studies Major - Public Relations Emphasis

Communication Studies Major - Social Influence and Advocacy Emphasis

Criminal Forensics Minor

Criminology Major

Criminology Minor

Crisis Communication Minor

Digital Media Communications Major

Digital Media Marketing Major

Digital Media Marketing Minor

Disability Services Minor

Earth Science Education Major

Economics Major

Economics Minor

Educational Studies Major - Disability Studies Emphasis

Educational Studies Major - Curriculum and Instruction PK-6 Emphasis

Educational Studies Major - Health and Physical Literacy Emphasis

Educational Studies Minor

Electronic Media Minor

Elementary Education Major

English Education Major

Equestrian Management Minor

Equestrian Sport Management Major

Finance Minor

Financial Economics Major

Foreign Language Spanish Education Major (not offered after 24-25)

Health and Physical Education Major

History and Social Studies Education Major

Journalism Minor

Management Major - General Emphasis (not offered after 24-25)

Management Major - Human Resources Emphasis (not offered after 24-25)

Marketing Major

Marketing Minor

Mathematics Education Major

Music Education Major - Instrumental Education Emphasis (not offered after 24-25)

Music Education Major - Vocal Education Emphasis (not offered after 24-25)

Popular Culture Minor

Public Relations Minor

Social Influence and Advocacy Minor

Special Education Major-General Curriculum (K-12) (not offered after 24-25)

Sport Management Major

Sport Management Minor

Sports Media Minor

EDUCATOR PREPARATION PROGRAM - TEACHER LICENSURE

The Educator Preparation Program (EPP) of University of Lynchburg includes the preparation of teachers in elementary, secondary, and Health and Physical Education.

The Virginia Department of Education has approved all programs within the University of Lynchburg's EPP, and that approval serves as the basis for licensure in Virginia. The Commonwealth of Virginia participates in certification reciprocity with more than forty states and areas. Eligibility for interstate reciprocity is based on completion of a specifically approved program as directed and delivered by the University of Lynchburg.

Approval has been received for the following programs:

Biology

Chemistry

Earth Science (Environmental Science)

Elementary Education (PK-6)

English

Foreign Languages (PK-12)

Spanish

Health and Physical Education (PK-12)

History and Social Sciences

Mathematics

Music Education (PK-12)

Instrumental

Vocal

Special Education (K-12)

Gateway 1- Orientation to the School of Professional and Applied Sciences (SPAS) (Completion by last day of classes for academic year 1 or semester 1 for transfers)

All students who plan to be licensed as teachers must apply for admission to Gateway 1 by the last day of classes during their first academic year at the University or if transferred in by the last day of classes of their first semester. A completed electronic application must be submitted to the administrative office of the School and will be forwarded to the Gateways Committee for review. All listed requirements below must be satisfied prior to the School of Professional and Applied Sciences application deadline. Orientation to the School of Professional and Applied Studies gives students interested in the careers in education guidance specific to

the programs offered in SPAS, potential career pathways, and requirements for the teacher licensure candidates. Candidates must submit all requirements through Google Classroom and complete the Application for Gateway 1. Completion of this gateway allows for the determination of candidate readiness and eligibility for progression into the pre-professional preparation program.

- Enroll 1st semester in program
- Declared education major
- Complete Teacher Licensure
- Module Passing score on quiz (provides a welcome to the SPAS, overview of all Gateways and pertinent licensure information)
- Covenant Not to Sue
- Professionalism Pledge
- TB Screening
- Criminal Background Check-cleared
- VCLA test score
- Complete e-Portfolio Part 1

Notification of admission status is provided through a letter from the School of Professional and Applied Sciences. Students who are denied admission to Pre-Professional Preparation Program are informed of the basis for this determination. If the student wishes to rectify the deficiency and re-apply, they must do so in writing, usually after an interval of one semester.

Gateway 2 - Admission to the Pre-Professional Preparation Program (Last day of classes for academic year 2, or semester 2 for transfers)

Students must have cleared the background check and taken the VCLA prior to beginning requirements for this Gateway. Gateway 2 provides information and guidance to the Gateway 2 application requirements Admission to the Pre-Professional Preparation Program. The student must submit all application requirements for Gateway 2 Application: Admission to the Pre-Professional Preparation Program by the last day of classes of sophomore year or if transferred by the last day of classes of the second semester. Completion of these requirements allows for the determination of the student's readiness and eligibility for progression into the pre-professional preparation program. A completed electronic application must be submitted to the administrative office of the School and will be forwarded to the Gateways Committee for review. All listed requirements below must be satisfied prior to the Orientation to the School of Professional and Applied Sciences (SPAS) application deadline. The completed application must be submitted to the administrative office of the School of Professional and Applied Sciences and will be forwarded to the Gateway Committee for review and approval.

- Prior completion Gateway 1 Application and Acceptance into Gateway 1
- Enroll fall of sophomore year (or Spring Junior if a transfer)
- VCLA Remediation (if applicable)
- Submit VCLA Passing Score
- Overall GPA 2.75
- Major GPA 3.0
- Must complete 4 required core courses for declared education major with a grade of B
- Dispositions 1 Passing Score
- Dispositions Self-Assessment
- Highly recommend students join a professional organization (KDP, CEC, etc.)
- Complete e-Portfolio Part 2
- Complete Gateway 2 Application (Gateway 2 application - Admission to Pre-Professional Program)

Notification of admission status is provided through a letter from the School of Professional and Applied Sciences (SPAS). Students who are denied admission to Gateway 2 are informed of the basis for this determination. If the student wishes to rectify the deficiency and re-apply, they must do so in writing, usually after an interval of one semester.

Gateway 3 - Application to Student Teaching and Educator Preparation Program (Nov 15/Mar 15 semester before student teaching)

Prior acceptance in the Pre-Professional Preparation Program is required (i.e., completion of Gate 200 course). Gateway 3 provides information and guidance for the student specific to the Gateway 3 application requirements for teacher licensure candidates. To move forward to Gateway 4, students must submit all application requirements for Gateway 3 Application: Admission to Student Teaching and Educator Preparation Program. Completion of this gateway allows for the determination of candidate readiness and eligibility for progression into student teaching and the Educator Preparation Program.

By the end of this Gateway all students will have completed the following requirements:

- Prior completion of GATE 200 course and Acceptance into Gateway 2
- Enroll fall of junior year or semester before student teaching
- Overall GPA 2.75
- Major GPA 3.0
- Praxis II Passing Score (fee varies)
- Praxis II- Teaching Reading if applicable
- Complete e-Portfolio Part 3
- 2 recommendations, one from a faculty member in the major and one from the student's advisor
- Complete Gateway 3 - Application to Student Teaching and Educator Preparation Program
- Application for Gateway 3 no later than Fall of Senior year (Nov 15/Mar 15 semester before student teaching)
- Applicants receive written notification of their admission status to Student Teaching and the Educator Preparation Program.

After receiving the approval letter for admission to Student Teaching and EPP, the student will receive notification of the mandatory Gateway 3 Orientation. Following admission to student teaching, the Director of Clinical Office and Teacher Licensure collaborates with each local school division to determine student teaching placements. Students are notified of their student teaching placement, in writing, after placements are finalized. More specific information about student teaching and related processes are included in the Student Teaching Handbook distributed to each candidate with the letter of approval to Gateway 2 and shared during the mandatory Student Teaching Orientation that all approved student teachers must attend on the first day of the semester of the assigned student teaching placement.

- Attend mandatory Gateway 2 Orientation at the end of the semester prior to student teaching;
- Attend a day long mandatory Student Teaching Orientation, which includes meeting the clinical educator;
- Complete 14 weeks of student teaching in a placement related to your endorsement area and major; and
- Complete all VDOE requirements for state licensure, including required trainings.

Gateway 4 - Application for Teacher Licensure and Program Completion (Last day of classes for academic year)

Prior acceptance into Student Teaching and the Educator Preparation Program is required. Gateway 4 provides information and guidance specific for the candidate during student teaching, student teaching seminar and teacher licensure application process through the Virginia Department of Education. Candidates must submit all teacher licensure application requirements for Gateway 4: Application for Teacher Licensure and Program Completion.

By the end of this Gateway all students will have completed the following requirements: *

- Successful completion of Student Teaching
- Successful completion of Student Teaching Seminar
- Submit minimum of 450 hours of consecutive student teaching hours - clock hours report
- Satisfactory scores on University Dispositions Assessment datapoint #3
- Completed VDOE Teacher Licensure Application
- PK ID Number
- Certificate of Completion for the Child Abuse/Neglect Prevention and Reporting Module
- Certificate of Completion for Emergency First Aid, hands on CPR training, and the use of automated external defibrillators
- Certificate of Completion for the Cultural Competency Training
- Certificate of Completion for the VDOE Dyslexia Module
- Certificate for Behavior, Restraint, and Seclusion
- Teaching Reading Scores (For Elementary and Special Education)
- Praxis II Scores
- Submit an official application for Virginia License online
- Submit \$100.00 (150.00 out of state)- digital payment through card
- Submit transcripts from other colleges for all courses necessary for licensure
- Complete CELC contact information form.
- Complete e-Portfolio Part 4

Teachers for Tomorrow Policies

All partner high school teachers in the Teacher for Tomorrow dual enrollment program will be listed as Associates of the University of Lynchburg. The following requirements and benefits apply to these Associates.

1. Must hold a current Postgraduate Professional License in the State of Virginia and be teaching the Teachers for Tomorrow State program curriculum in a partner school system.
 - a. The Postgraduate Professional License requires a Master's Degree.
 - b. Teaching in a partner school system requires a Criminal Background Check and Social Services Background Check
 - c. The University accepts the state teaching license and the employment by a partner school system as documentation of both a. and b.
2. The Tft University Program Director will annually verify each Associate's Virginia state teaching license with the Virginia Department of Education and employment with the partner school systems. This verification will take place each August prior to the University's Fall semester and prior to enrolling students into the Tft program.
3. The Tft University Program Director will provide a list of Associates to the Director of Information Technology and Resources. This list will be provided each August prior to the University's Fall semester and prior to enrolling students into the Tft program. The Director will set up all appropriate Accesses to information technology and resources.
4. The Tft University Program Director will provide a list of Associates to the Human Resources Generalist. This list will be provided each August prior to the University's Fall semester and prior to enrolling students into the Tft program. The Human Resources Generalist will provide all necessary forms and information to the Associates to include the following:
 - a. Request for an Identification Card
 - b. Vehicle Policies and Registration Information
 - c. University of Lynchburg Express Account Information
 - d. Campus Store Information
 - e. Knight-Capron Library Hours
 - f. Fitness Facilities Information
 - g. Burton Dining Hall Information
 - h. Information and Technology Use Information
5. The Tft University Program Director will provide a list of all high school students along with the appropriate application to the Director of Admissions prior to the University's drop/add deadline date each semester.
6. The Tft University Program Director will assist the Registrar in properly registering the high school students into the proper courses and sections.
7. The University of Lynchburg will bill the partner school systems at a rate of \$25.00 per credit for the following dual enrollment course:
 - a. EDUC 210 (4 hours)

Current Statutory Licensure Requirements for Initial Licensure through VDOE can be found at <https://www.doe.virginia.gov/teaching-learning-assessment/teaching-in-virginia/teacher-licensure/licensing-forms-information>. See bullet 7 under Information for Initial Licensure on VDOE's webpage. **All VDOE trainings and licensure requirements are subject to change based on the state decision.*

Completing all the list requirements determines the candidates eligibility for teacher licensure and program completion status. Program completion allows the following statement on the transcript: Qualified for Interstate Certification Compact.

Call Me MiSTER®

The Call Me MiSTER® program prepares young men for impactful careers as elementary, middle or high school teachers, providing resources and support that move them toward successfully securing positions in classrooms where they will positively impact the lives of their students. Program applicants can be admitted into the Call Me MiSTER® program as a freshmen or transfer students, if space is available, once admitted to the University of Lynchburg. Selected student participants, known as MiSTER® s, must pursue a program of study in a teacher education major leading to a baccalaureate degree. The university offers teacher education majors, that lead to state licensure in, multiple areas: Elementary Education, Special Education, English Education, History and Social Science Education, Mathematics Education, Earth Science Education, Chemistry Education, Biology Education, Health and Physical Education, Music Education (instrumental and vocal), and Spanish Education. For more information, email the Office of Admissions at admissions@lynchburg.edu.

ACCOUNTING MAJOR

Accounting provides the foundation for all business decisions. It is the cornerstone upon which the utilization and allocation of resources within an organization rest. The four-year accounting major prepares the student for a career in public accounting, managerial accounting, governmental accounting, accounting education, and other accounting-related careers.

Courses in the business core:		Hours	
ACCT	200	Accounting for Business Leaders	3
BUAD	100	Perspectives on Business	3
BUAD	241	Business Statistics	3

			Hours
BUAD	441W	Integrated Application of Business Principles	3
ECON	201	Principles of Economics - Micro	3
ECON	202	Principles of Economics - Macro	3
FIN	317	Principles of Finance	3
MGMT	344	Operations Management	3
MGMT	260	Principles of Management and Organizational Behavior	3
MGMT	310	Management Information Systems	3
MKTG	209	Principles of Marketing	3
*One of the following:			3
ACCT	311	Personal Income Tax	
ACCT	319	Corporate and Partnership Taxation	
Accounting courses:			
ACCT	301-302	Intermediate Accounting I, II	6
ACCT	303W	Intermediate Accounting III with Theory	3
ACCT	313	Strategic Cost Management	3
ACCT	401	Advanced Accounting	3
ACCT	421	Auditing Principles	3
ACCT		Other ACCT course 300 and above [^]	3
BUAD	322	Legal Environment of Business	<u>3</u>
<i>Total Hours Required</i>			60

*Students who plan to take the CPA exam are encouraged to take ACCT 311. Students who plan to take the CMA exam are encouraged to take ACCT 319.

[^]Students who plan to take the CPA exam should review the exam's discipline sections (effective January 2024: Business Analytics and Reporting; Information Systems and Controls; and Tax Compliance and Planning) and choose ACCT electives according to their targeted discipline exam.

ACCOUNTING MINOR

ACCT	200	Accounting for Business Leaders	3
ACCT	301	Intermediate Accounting I	3
ACCT	313	Strategic Cost Management	3
ACCT		Other ACCT course 300 and above	3
One of the following:			3
ACCT	311	Personal Income Tax	3
ACCT	319	Corporate and Partnership Taxation	
<i>Total Hours Required</i>			<u>15</u>

BIOLOGY EDUCATION MAJOR

Required major courses:			
BIOL	113	Evolution, Ecology, and Organisms	4
BIOL	114	Cells: Genetic and Molecular Perspectives	4
BIOL	205W	Plant Biology	4
BIOL	210	Animal Biology	4
BIOL	224	Human Anatomy and Physiology I	4
BIOL	225	Human Anatomy and Physiology II	4
BIOL	321W	General Ecology	4
BIOL	256	Genetics	4
BIOL	405	Evolution	3
BIOL	480W	Case Studies in Biology	3
CHEM	111	Fundamentals of Chemistry I	4
CHEM	112	Fundamentals of Chemistry II	4
CHEM	221	Organic Chemistry I	4
STAT	222	Introductory Statistics	3
Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	<u>12</u>
<i>Total Hours Required</i>			87

BUSINESS ADMINISTRATION MAJOR

The business administration major prepares students for general administrative positions and allows students to customize their major by selecting second non-business major or any minor of their choice. The business administration major requires the thirty-nine hour business core. Those undertaking majors in accounting, management, or marketing are unable to double major with business administration.

Courses in the business core:			
ACCT	200	Accounting for Business Leaders	3

			Hours
BUAD	100	Perspectives on Business	3
BUAD	185	Spreadsheets for Business	3
BUAD	241	Business Statistics	3
BUAD	441W	Integrated Application of Business Principles	3
ECON	201	Principles of Economics - Micro	3
ECON	202	Principles of Economics - Macro	3
FIN	317	Principles of Finance	3
MGMT	260	Principles of Management and Organizational Behavior	3
MGMT	262	Human Resource Management	3
MGMT	310	Management Information Systems	3
MGMT	344	Operations Management	3
MKTG	209	Principles of Marketing	3
Minor or second major			<u>*15-18</u>
<i>Total Hours Required</i>			54-57

* Students choosing minors must meet the University requirements for minor programs (a 2.0 average in the minor courses with at least 50 percent of coursework completed at University of Lynchburg).

BUSINESS MINOR

Students majoring in accounting, management, marketing, or digital media marketing majors cannot minor in the business minor.

ACCT	200	Accounting for Business Leaders	3
ECON	201	Principles of Economics-Micro	3
MGMT	260	Principles of Management and Organizational Behavior	3
MKTG	209	Principles of Marketing	3
Two from the following:			6
FIN	150	Family and Personal Finance	
BUAD		Other courses 200 and above	
ECON		Other courses 200 and above	
FIN		Other courses 200 and above	
MGMT		Other courses 200 and above	
MKTG		Other courses 200 and above	
<i>Total Hours Required</i>			<u>18</u>

CHEMISTRY EDUCATION MAJOR

Required major courses:			
CHEM	111	Fundamentals of Chemistry I	4
CHEM	112	Fundamentals of Chemistry II	4
CHEM	206	Environmental Chemistry	4
CHEM	221	Organic Chemistry I	4
CHEM	222	Organic Chemistry II	4
CHEM	242W	Research Methodology in Chemistry	3
CHEM	320	Biochemistry I	4
CHEM	359	Analytical Chemistry I	4
CHEM	360	Analytical Chemistry II	4
CHEM	441	Chemistry Seminar	1
MATH	103	Calculus I	3
PHYS	141	College Physics I	4
PHYS	142	College Physics II	4
Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	<u>12</u>
<i>Total Hours Required</i>			81

COACHING MINOR

HPE	116	The Teaching of Team Sports	2
HPE	118	The Teaching of Individual Sports and Dance	2
HPE	119L	The Teaching of Outdoor Pursuits and Fitness Education	2
HPE	205*	Coaching Apprenticeship	3-6
Electives:			6-7
EXPH	225	Basic Emergency and Injury Care Management	
EXPH	355**	Scientific Principles of Strength and Conditioning	

HPE	304W	Sport, Exercise, and Performance Psychology	Hours
H P	270	Nutrition	
SPMG	260	Principles of Sport Management	
<i>Total Hours Required</i>			15-18

* Students are encouraged to take several apprenticeships. The apprenticeship can be taken more than once for 1-6 credits. If more than one HPE 205 is taken, it must be applied to experiences with different sports. The student and advisor must be aware of the application for multiple apprenticeships.

** BIOL 224 and 225 are prerequisites for EXPH 355. However, the student has other options to complete the minor without having to take EXPH 355.

COMMUNICATION STUDIES MAJOR

The communication studies major is designed for students who wish to pursue careers in any professional setting requiring proficiency in and understanding of communication. These careers include, but are not limited to, advertising executive, public relations officer, magazine editor, art/curator, administrator, human resources specialist, journalist, lawyer, fashion/retail manager, sales associate, sports announcer, news anchor, weather reporter, college student personnel, teacher, political analyst and campaign director, press secretary, television news director, and nonprofit organization director. All students follow a common core curriculum distributed over their four-year course of study. They also choose one of four emphases: Electronic Media, Journalism, Public Relations, or Social Influence and Advocacy for a total of forty-two credit hours. As part of their coursework, students participate regularly and actively in experiential learning including writing for the campus newspaper, producing programming for campus television, creating and presenting scholarly work at academic conferences, and engage in service learning, internships, and leadership opportunities.

COMMUNICATION STUDIES MAJOR—ELECTRONIC MEDIA EMPHASIS

Students selecting this emphasis are usually planning careers in media writing and production. Students will learn how to write for the print and electronic media, including the internet and multimedia, and how to use various electronic tools to communicate effectively. Student work will be presented in the campus newspaper, campus cable television, website, and a variety of client-oriented media products such as slide presentations, and DVDs.

Core courses:

COMM	112	Interpersonal Communication	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	230W	Persuasion	3
COMM	303W	Research Methods in Communication	3
COMM	401W	Advanced Communication Theory and Senior Thesis	3

Electronic Media courses:

COMM	104	Introduction to Media Technology	3
COMM	304	Digital Editing and Motion Graphics	3
COMM	372	Media Criticism	3
COMM	405	Communication Law and Ethics	3
COMM	485	Producing and Directing for Electronic Media	3

Six hours from:

COMM	180	Stage and Studio Television	6
COMM	206	Advertising and Production Design	
COMM	381	Mobile and Social Media Reporting	
COMM	382	Documentary Design and Production	
COMM	394	Culture Industries, Audiences, and the Superhero	
COMM	395	Cultural Impact of Popular Television	
COMM	404	Advanced Digital Editing and Motion Graphics	

Three hours from:

COMM	232	Debate and Freedom of Speech	3
COMM	275	Visual Rhetoric	
COMM	377	Study Abroad	
COMM	381	Mobile and Social Media Reporting	
COMM	382	Documentary Design and Production	
COMM	387	Domestic Study Away	
COMM	397	Independent Study in Communication	
COMM	398	Special Topics in Communication	
COMM	399	Internship in Communication	
COMM	411	Supervised Practicum	

Total Hours Required

42

COMMUNICATION STUDIES MAJOR—JOURNALISM EMPHASIS

In today's digital age, journalism has been reinvented to appeal to an interactive global community. Traditional news systems are in need of ingenuity in an ever-changing world of technology. This emphasis prepares future journalists for diverse careers in television, radio, the web and mobile technologies with a combination of traditional writing tools and audio and video production skills. Journalism students learn the art of digital storytelling while working with the latest cameras and editing technologies.

Core courses:

COMM	112	Interpersonal Communication	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	230W	Persuasion	3
COMM	303W	Research Methods in Communication	3
COMM	401W	Advanced Communication Theory and Senior Thesis	3

Convergent Journalism courses:			Hours
COMM	104	Introduction to Media Technology	3
COMM	202	Multimedia Design and Storytelling	3
COMM	301	The American Voice: Analyzing Discourse in Public Life	3
COMM	381	Mobile and Social Media Reporting	3
COMM	405	Communication Law and Ethics	3
COMM	450	Investigative Storytelling	3
Three hours from:			3
COMM	180	Stage and Studio Television	
COMM	251	Intercultural Communication	
COMM	372	Media Criticism	
COMM	382	Documentary Design and Production	
COMM	395	Cultural Impact of Popular Television	
Three hours from:			3
COMM	232	Debate and Freedom of Speech	
COMM	275	Visual Rhetoric	
COMM	377	Study Abroad	
COMM	387	Domestic Study Away	
COMM	397	Independent Study in Communication	
COMM	398	Special Topics in Communication	
COMM	399	Internship in Communication	
COMM	411	Supervised Practicum	
<i>Total Hours Required</i>			42

COMMUNICATION STUDIES MAJOR–PUBLIC RELATIONS EMPHASIS

Students selecting this emphasis are usually planning to enter careers as public relations specialists, public relations managers, events planners, lobbyists, or non-profit managers. Students will learn how to develop, design, implement and evaluate campaigns that create mutually beneficial relationships between an organization and its public. An in-depth understanding of adapting messages to audiences in order to successfully attain organizational goals will be developed and mastered. Students will also engage in projects that allow faculty to evaluate their effectiveness as communicators.

Core courses:			Hours
COMM	112	Interpersonal Communication	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	230W	Persuasion 3	
COMM	303W	Research Methods in Communication	3
COMM	401W	Advanced Communication Theory and Senior Thesis	3
Public Relations/Journalism courses:			
COMM	260	Introduction to Public Relations	3
COMM	302	Strategic Public Relations Writing	3
COMM	372	Media Criticism	3
COMM	405	Communication Law and Ethics	3
COMM	440	Public Relations Media and Campaigns	3
Six hours from:			6
COMM	104	Introduction to Media Technology	
COMM	251	Intercultural Communication	
COMM	341	Professional and Organizational Communication	
COMM	362	Crisis Communication	
COMM	381	Mobile and Social Media Reporting	
COMM	394	Culture Industries, Audiences, and the Superhero	
Three hours from:			3
COMM	232	Debate and Freedom of Speech	
COMM	275	Visual Rhetoric	
COMM	377	Study Abroad	
COMM	381	Mobile and Social Media Reporting	
COMM	382	Documentary Design and Production	
COMM	387	Domestic Study Away	
COMM	398	Special Topics in Communication	
COMM	399	Internship in Communication	
COMM	411	Supervised Practicum	
<i>Total Hours Required</i>			42

COMMUNICATION STUDIES MAJOR–SOCIAL INFLUENCE AND ADVOCACY EMPHASIS

Students selecting this emphasis plan to enter careers where communication skills are essential. This wide-ranging emphasis leads to career pathways in such areas as Social Influence (social media director, event planner, real estate or fashion/retail sales associate, conflict negotiator, diversity and inclusion specialist), Organizational Leadership (human resources and personnel manager, university recruiter/ development officer/ residence life director, health communication specialist, non-profit manager), and Public Advocacy (grassroots/political organizer, political campaign consultant, political media liaison, community outreach director). This emphasis also provides a solid foundation for a career in law or the teaching of communication. Students will learn to craft and deliver effective messages by oral, written, and electronic means, with an emphasis on critical and analytical thought.

Core courses:			Hours
COMM	112	Interpersonal Communication	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	230W	Persuasion	3
COMM	303W	Research Methods in Communication	3
COMM	401W	Advanced Communication Theory and Senior Thesis	3
Communication and Social Influence courses:			
COMM	101	Argumentation and Advocacy	3
COMM	228	Public Presentation in a Digital Age	3
COMM	251	Intercultural Communication	3
COMM	301	The American Voice: Analyzing Discourse in Public Life	3
Nine hours from:			9
COMM	114	Small Group Communication	
COMM	232	Debate and Freedom of Speech	
COMM	270	Social Media Communication	
COMM	341	Professional and Organizational Communication	
COMM	350	Dissent and Political Communication	
COMM	405	Communication Law and Ethics	
COMM	412	Digital Leadership and Influencer Communication	
Three hours from:			3
COMM	232	Debate and Freedom of Speech	
COMM	275	Visual Rhetoric	
COMM	377	Study Abroad	
COMM	387	Domestic Study Away	
COMM	397	Independent Study in Communication	
COMM	398	Special Topics in Communication	
COMM	399	Internship in Communication	
COMM	411	Supervised Practicum	
<i>Total Hours Required</i>			<u>42</u>

CRIMINAL FORENSICS MINOR

A student who completes a minor in criminal forensics will gain an understanding of and a basic foundation on the overlapping aspects of criminology and science. Students in this minor will work to combine science and theory as applied to crime, crime analysis, and the criminal justice process.

Core courses:			Hours
CRIM	201	Criminology	3
CRIM	205	Introduction to Criminal Forensics	3
CRIM	321	Child Abuse and Exploitation	3
One from the following:			3-4
ACCT	421	Auditing Principles	
BIOL	256	Genetics	
BUAD	243	Data Mining	
CRIM	255	Crime Scene Investigation	
NRSB	232/232L	Health Assessment and Lab	
PSYC	263	Psychology of Law	
PBHL	340	Women's Health	
One from the following:			3-4
ACCT	470	Forensic Accounting	
BIOL	322	Forensic Science	
BIOL	354	Toxicology	
CRIM	320	Victimology	
CRIM	401	Medical Forensics	
PSYC	308	Abnormal Behavior	
<i>Total Hours Required</i>			<u>15-17</u>

CRIMINOLOGY MAJOR

The criminology major is designed for students interested in careers within the U.S. criminal justice system and international justice systems. A student who chooses to major in criminology will be provided a general understanding of the dynamics within justice systems both nationally and internationally. This interdisciplinary program, which emphasizes quantitative approaches to studying crime and the systems of punishment, will provide majors with the background required for employment within governmental organizations.

Specific goals are:

1. to provide students a theoretical foundation and a working knowledge of the U.S. criminal justice system;
2. to provide students a foundation for studying international policy, practice, and issues of global concern; and
3. to provide students the background for quantitative analysis of crime data.

Core courses:			Hours
CRIM	201	Criminology	3
CRIM	202	Criminal Justice Process	3

			Hours
CRIM	211	Law and Society	3
CRIM	243	Juvenile Delinquency	3
CRIM	275	Research Methods	3
CRIM	301	Comparative Criminal Justice	3
CRIM	372W	Quantitative Methodology	3
CRIM	430W	Senior Research Capstone	3
Two from the following:			6
ASL	201	Intermediate ASL I	
CRIM		Other CRIM courses 200 and above	
ENGL	293W	Literature and Justice: Textual and Cultural Explorations of Mortality and Law	
HIST	203	Crime and Punishment in America	
HMSV	210	Domestic Violence: Interventions and Advocacy	
INTL	280	Security Studies in a Global Context	
PHIL	204W	Introduction to Ethics	
POLI	303	Terrorism and Revolution	
SOCI	222	Sociology of Race and Ethnicity	
SOCI	256	Deviance, Crime, and Social Control	
SPAN	201	Intermediate Spanish I	
One from the following:			3
CRIM	377	Study Abroad	
CRIM	397	Independent Study in Criminology	
CRIM	399	Internship in Criminology	
<i>Total Hours Required</i>			<u>33</u>

CRIMINOLOGY MINOR

A student who completes a minor in criminology will gain understanding of the principles and processes involved in explaining and addressing criminal behavior. In addition, the student will be exposed to a coordinated academic program of study that addresses criminal justice issues from a multidisciplinary, social science perspective.

CRIM	201	Criminology	3
CRIM	202	Criminal Justice Process	3
Nine hours from:			9
CRIM		Other CRIM courses 200 and above	
<i>Total Hours Required</i>			<u>15</u>

CRISIS COMMUNICATION MINOR

COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	260	Introduction to Public Relations	3
COMM	362	Crisis Communication	3
Three hours from:			3
CRIM	202	Criminal Justice Process	
HMSV	201	The Science and Art of Meeting Human Need	
INTL	280	Security Studies in a Global Context	
POLI	303	Terrorism and Revolution	
SOCI	225	Poverty, Homelessness, and Social Justice	
<i>Total Hours Required</i>			<u>15</u>

DIGITAL MEDIA COMMUNICATIONS MAJOR

The Digital Media Communication major focuses on the importance of messaging in an increasingly mediated world. Students in the major will learn theoretical concepts, develop practical production skills, and engage critical insight through multidisciplinary coursework in communication and marketing. Those insights and skills will allow them to craft effective messages in an ever-changing digital landscape. Digital media communication majors will be well suited for contemporary communication careers, particularly those involving online messaging and social media.

COMM	104	Introduction to Media Technology	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	202	Multimedia Design and Storytelling	3
COMM	260	Introduction to Public Relations	3
COMM	270	Social Media Communication	3
COMM	302	Strategic Public Relations Writing	3
COMM	381	Mobile and Social Media Reporting	3
COMM	405	Communication Law and Ethics	3
COMM	412	Digital Leadership and Influencer Communication	3
Marketing core:			
MKTG	200	Social Media Marketing	3
MKTG	209	Principles of Marketing	3

			Hours
Criticism (choose one):			3
COMM	275	Visual Rhetoric	
COMM	372	Media Criticism	
Practice (choose four):			12
COMM	304	Digital Editing and Motion Graphics	
COMM	341	Professional and Organizational Communication	
COMM	362	Crisis Communication	
COMM	440	Public Relations Media and Campaigns	
COMM	450	Investigative Storytelling	12
Experiential Learning:			3
COMM	377	Study Abroad	
COMM	387	Domestic Study Away	
COMM	397	Independent Study in Communication	
COMM	398	Special Topics in Communication	
COMM	399	Internship in Communication	
COMM	411	Supervised Practicum	
Total Hours Required			<u>54</u>

DIGITAL MEDIA MARKETING MAJOR

The Digital Media Marketing Major facilitates students securing jobs in the fast-growing sector of digital media marketing. The Business and Economic faculty have designed this major to be the most robust of its type in the five-state region. Students will get a strong grounding in business administration by taking our business core as well as specialized classes both in marketing and in the related multidisciplinary areas of digital graphic design and digital media communications.

Business courses:			
ACCT	200	Accounting for Business Leaders	3
BUAD	100	Perspectives on Business	3
BUAD	185	Spreadsheets for Business	3
BUAD	241	Business Statistics	3
BUAD	441W	Integrated Application of Business Principles	3
ECON	201	Principles of Economics - Micro	3
ECON	202	Principles of Economics - Macro	3
FIN	317	Principles of Finance	3
MGMT	260	Principles of Management	3
MGMT	262	Human Resource Management	3
MGMT	310	Management Information Systems	3
MGMT	344	Operations Management	3
MKTG	209	Principles of Marketing	3
Marketing courses			
MKTG	200	Social Media Marketing	3
MKTG	371	Marketing Analytics	3
MKTG	375W	Consumer Behavior	3
MKTG	379	Marketing Communications	3
MKTG	425	Interactive Marketing	3
MKTG	451	Marketing Management	3
Digital Media courses			
COMM	201W	Media Writing	3
COMM	381	Mobile and Social Media Reporting	<u>3</u>
<i>Total Hours Required</i>			63

DIGITAL MEDIA MARKETING MINOR

The digital media marketing minor is a multi-disciplinary minor bringing together aspects of both communications and business in this rapidly expanding new field. In addition to marketing and communications students, the digital media marketing minor is designed to appeal to students in many other majors and minors including, but not limited to: sport management, English, the arts, professional writing, popular culture, and political science as well as any student interested in a career involving the use of social media.

Required courses:			
COMM	104	Introduction to Media Technology	3
COMM	201W	Media Writing	3
MKTG	200	Social Media Marketing	3
MKTG	209	Principles of Marketing	3
One of the following:			3
COMM	206	Advertising and Production Design	
COMM	381	Mobile and Social Media Reporting	
One of the following:			3
MKTG	379	Marketing Communications	
MKTG	425	Interactive Marketing	
<i>Total Hours Required</i>			<u>18</u>

EARTH SCIENCE EDUCATION MAJOR

Required major courses:			Hours
CHEM	127	The Chemistry of Life	4
ENVS	111	Environmental Science and Sustainability I	4
ENVS	112	Environmental Science and Sustainability II	4
ENVS	201W	History of Earth and Life	4
ENVS	211	Physical Geography	3
ENVS	333	Physical Oceanography	4
ENVS	336	Physical Geology	4
ENVS	338	Environmental Geology	4
ENVS	345	Meteorology	3
MATH	102	Pre-Calculus	3
or			
MATH	103	Calculus I	
PHYS	181	Astronomy: Solar System	4
Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	<u>12</u>
<i>Total Hours Required</i>			75

ECONOMICS MAJOR

The economics major is designed to provide a well-rounded knowledge of the theoretical and institutional structure of economic activities with specific emphasis on the free market system. Course work is available to give economics majors the knowledge and skill to conduct professional economic research and analysis and to provide a firm basis for continuation of study at the graduate level. The degree in economics is not a business degree but rather a traditional social science degree.

One of the following:			3
MATH	102	Precalculus	
MATH	103	Calculus I	
MATH	106	Liberal Arts Mathematics	
One of the following:			3
BUAD	241	Business Statistics	
STAT	222	Introductory Statistics	
Courses in the major:			
ECON	201-202	Principles of Economics	6
ECON	300	Intermediate Macroeconomic Theory	3
ECON	301	Intermediate Microeconomic Theory	4
ECON	308	International Economics Policy	3
ECON	350	Econometrics	3
ECON	450W	Senior Seminar in Economics	3
Fifteen hours from:			15
ACCT	200	Accounting for Business Leaders	
BUAD	243	Data Mining	
ECON		Other ECON courses 100 and above	
<i>Total Hours Required</i>			<u>43</u>

ECONOMICS MINOR

ECON	201-202	Principles of Economics	6
ECON		Other ECON courses 100 and above	<u>12</u>
<i>Total Hours Required</i>			18

EDUCATIONAL STUDIES MAJOR - DISABILITY STUDIES EMPHASIS

The Disability Studies emphasis is a non-licensure track major. The Disability Studies emphasis is designed for students who are interested in the study of education but do not choose to pursue a teaching license. This may include students who wish to pursue an advanced degree in an education-related field but do not necessarily want to teach in a public school or for those who may want to continue in a licensure program at a later date. Three emphases are offered: elementary education, disability studies, and health and physical education. To pursue licensure through a bachelor's degree, see the Special Education Major to review teaching licensure requirements.

Core Courses:			Hours
EDUC	110	Human Diversity in American Schools	3
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	220	Assessment of and for Learning	3
EDUC	240	Curriculum, Instruction, and Assessment	3
EDUC	309	Early Childhood Development, Language, and Literacy I	3

			Hours
EDUC	310W	Language and Literacy II	4
EDUC	362	Classroom and Behavior Management	3
EDUC	419	Methods of Teaching Science, Technology, Engineering, and Math in the Elementary School	4
SPED	220	Introduction to Exceptionalities	3
SPED	231	Collaboration	3
Disability Studies Emphasis:			
SPED	232	Characteristics of Low Incidence Disabilities	3
SPED	332	Characteristics of High Incidence Disabilities	3
SPED	337	Methods for Academic Content	3
SPED	338	Advanced Assessment and IEP Development	4
SPED	400	Advanced Behavior Management	3
SPED	402	Transition in Special Education	3
<i>Total Hours Required</i>			55

EDUCATIONAL STUDIES MAJOR – CURRICULUM AND INSTRUCTION PK-6 EMPHASIS

The Educational Studies Major is a non-licensure track major. The Educational Studies Major is designed for students who are interested in the study of education but do not choose to pursue a teaching license. This may include students who wish to pursue an advanced degree in an education-related field but do not necessarily want to teach in a public school, or those who may want to continue in a licensure program at a later date. Three emphases are offered: curriculum and instruction PK-6, disability studies, and health and physical education. To pursue licensure through a bachelor's degree, see the Elementary Education Major to review teaching licensure requirements.

Core Courses:			
EDUC	110	Human Diversity in American Schools	3
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	220	Assessment of and for Learning	3
EDUC	240	Curriculum, Instruction, and Assessment	3
EDUC	309	Early Childhood Development, Language, and Literacy I	3
EDUC	310W	Language and Literacy II	4
EDUC	362	Classroom and Behavior Management	3
EDUC	419	Methods of Teaching Science, Technology, Engineering and Math in the Elementary School	4
SPED	220	Introduction to Exceptionalities	3
SPED	231	Collaboration	3
Elementary Emphasis:			
EDUC	314	Culturally and Linguistically Diverse Learners	3
EDUC	355	Methods for Teaching Elementary Social Studies	3
EDUC	409	Language and Literacy III	3
ENGL	315W	English Grammar	3
Four hours from:			
ENVS	111	Environmental Science and Sustainability I	4
ENVS	112	Environmental Science and Sustainability II	
SCIE	101	Principles of Science I	
SCIE	102	Principles of Science II	
Choose one of the following:			3
ENVS	211	Physical Geography	
HIST	255	America to 1877	
HIST	256	America Since 1877	
INTL	213	World Regional Geography	
Choose one of the following:			3
MATH	117	Introduction to School Mathematics I	
MATH	118	Introduction to School Mathematics II	
<i>Total Hours Required</i>			58

EDUCATIONAL STUDIES MAJOR - HEALTH AND PHYSICAL LITERACY EMPHASIS

The Health and Physical Literacy emphasis does not lead to licensure but it will give a comprehensive look at the area of Health and Physical Education. The program prepares reflective practitioners who collaborate effectively with families, colleagues, and other professionals, and who affect positive outcomes for students. The Health and Physical Literacy emphasis enhances the development of non-licensure professionals and provides the scope content that will allow the graduate to be well positioned to have a solid understanding of the principles of Health and Physical Education without licensure. To pursue licensure through a bachelor's degree, see the Health and Physical Education Major to review teaching licensure requirements.

Core Courses:			
EDUC	110	Human Diversity in American Schools	3
HPE	258	Foundations of Health and Physical Education	3
HPE	304W	Sport, Exercise, and Performance Psychology	3
SPED	220	Introduction to Exceptionalities	3
HPE Courses:			
HPE	116	The Teaching of Team Sports	2

			Hours
HPE	118	The Teaching of Individual Sports and Dance	2
HPE	119L	The Teaching of Outdoor Pursuits and Fitness Education	2
HPE	259	School Health Content	2
HPE	303W	Human and Motor Development	3
HPE	310	PK-5 Physical Education Curriculum and Methods *	4
HPE	361	Assessment in Health and Physical Education	3
HPE	363	Health and Physical Education for Exceptional Populations	2
LVWL	100	21st Century Wellness	2
Professional Courses:			
BIOL	224	Human Anatomy and Physiology I	4
BIOL	225	Human Anatomy and Physiology II	4
EDUC	351	Reading in a Content Area	3
EXPH	325	Physiology of Exercise	3
EXPH	380	Kinesiology	3
H P	270	Nutrition	3
H P	300	Drugs and Behavior Management	3
H P	405W	Contemporary Health Issues	3
Internship Requirement			
HPE	415	Internship in Health and Physical Education	<u>6</u>
<i>Total Hours Required</i>			66

*A minimum grade of C- is required for courses in the program

EDUCATIONAL STUDIES MINOR

The educational studies minor is designed for those students who are interested in learning how to work with children of school age. This minor introduces students to an understanding of student diversity, how students learn, how schools work, and how to work with families, agencies, and others. This minor will not lead to a teaching license.

Core courses:			
EDUC	110	Human Diversity in American Schools	3
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
SPED	220	Introduction to Exceptionalities	3
Three hours from the following:			3
*EDUC	220	Assessment of and for Learning	
*EDUC	240	Curriculum, Instruction, and Assessment	
*EDUC	309	Early Childhood Development, Language, and Literacy I	
*EDUC	314	Culturally and Linguistically Diverse Learners	
*EDUC	362	Classroom and Behavior Management	
*SPED	231	Collaboration	
<i>Total Hours Required</i>			<u>16</u>

*All prerequisites and corequisites outlined in the course descriptions must be met.

ELECTRONIC MEDIA MINOR

COMM	104	Introduction to Media Technology	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	304	Digital Editing and Motion Graphics	3
Six hours from:			6
COMM	180	Stage and Studio Television	
COMM	206	Advertising and Production Design	
COMM	377	Study Abroad	
COMM	381	Mobile and Social Media Reporting	
COMM	382	Documentary Design and Production	
COMM	405	Communication Law and Ethics	
<i>Total Hours Required</i>			<u>18</u>

ELEMENTARY EDUCATION MAJOR

The BS in elementary education major blends content with research-based pedagogy and supports candidates to develop as leaders and professionals to address student needs while maintaining a positive and supportive learning environment for all learners. The elementary education major has two tracks, one that leads to a PreK-6 teaching license and one that leads to a PreK-6 teaching license with an add-on endorsement in Special Education General Curriculum.

The BS in elementary education is a rigorous program that helps to prepare prospective candidates for a challenging and rewarding profession of elementary teaching. It is designed for individuals who will work with preschool-6th graders in teaching situations. Completers of the elementary education licensure track will graduate with a full collegiate teaching license which is recognized in Virginia and 46 other states.

Prospective candidates for the licensure track must apply to the Educator Preparation Program by submitting a complete application to the School of Professional and Applied Science by November 15 if student teaching in the spring semester and March 15 if student teaching in the fall semester. A complete application includes: completion of the core courses listed below, minimum GPA requirements, and 2 recommendations from faculty and advisor. Also required are passing scores on required state assessments: VCLA, Praxis II in the content area and Praxis Teaching Reading In addition to the requirements for the Educator Preparation Program, candidates are required to have a background check prior to all courses with field assignments. In addition, candidates must possess the necessary disposi-

tions for teaching. All requirements are necessary to be admitted into Student Teaching and the Educator Preparation Program. Candidates will be assessed and vetted throughout the program by a committee of faculty representing all program areas. Please refer to the website for the most up-to-date requirements. A minimum QPA of 3.0 must be maintained for courses in the major. Always refer to the Virginia Department of Education for statutory requirements for initial licensure as changes do occur.

Optional Add-on Endorsement in Special Education

For those elementary education majors who wish to add on a special education general curriculum endorsement to their teaching license upon graduation, there is an option for a student teaching experience to include a special education practicum, which would allow the candidate to earn an initial license in elementary education with an add on endorsement in special education general curriculum (K-6). This would allow the graduate to teach either elementary or special education general curriculum upon completion, making the graduate more marketable and providing them with more options.

Core courses:			Hours
EDUC	110	Human Diversity in American Schools	3
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
SPED	220	Introduction to Exceptionalities	3
Professional courses:			
EDUC	220	Assessment of and for Learning	3
EDUC	240	Curriculum, Instruction, and Assessment	3
EDUC	309	Early Childhood Development, Language, and Literacy I	3
EDUC	310W	Language and Literacy II	4
EDUC	314	Culturally and Linguistically Diverse Learners	3
EDUC	355	Methods for Teaching Elementary Social Studies	3
EDUC	362	Classroom and Behavior Management	3
EDUC	409	Language and Literacy III	3
EDUC	411	Advanced Field Experience	3
EDUC	419	STEM Methods for Elementary Teaching	4
SPED	338	Advanced Assessment and IEP Development	4
Required DELL curriculum:			
HIST	103W	Turning Points in World History	3
			8
Eight hours from:			
ENVS	111	Environmental Science and Sustainability I	
ENVS	112	Environmental Science and Sustainability II	
SCIE	101	Principles of Science I	
SCIE	102	Principles of Science II	
Supplemental content courses:			
ENGL	315W	English Grammar	3
HIST	255	American History Origins to 1877	3
HIST	256	America Since 1877	3
INTL	213	World Regional Geography	3
MATH	117	Introduction to School Mathematics I	3
MATH	118	Introduction to School Mathematics II	3
One of the following categories:			12
Student Teaching			
EDUC	475	Student Teaching	
Student Teaching with SPED Add-On*			
EDUC	477	Student Teaching for Elementary Education with SPED Add-On Endorsement	
SPED	423	Special Education Practicum for Add-on Endorsement	
<i>Total Hours Required</i>			<u>87</u>

*EDUC 477 and SPED 423 must be taken concurrently.

ENGLISH EDUCATION MAJOR

Required major courses:			
COMM	101	Argumentation and Advocacy	3
ENGL	123W	College Writing Workshop	3
or			
ENGL	223W	Writing for Publication	
ENGL	201W	Literature and Culture I: Masterpieces from Antiquity Through the Renaissance	3
or			
ENGL	202W	Literature and Culture II: Works from the Enlightenment to the Present	
ENGL	220W	Introduction to Literary Studies	3
ENGL	314W	History of the English Language	3
ENGL	315W	English Grammar	3
ENGL	317	Teaching Writing	3
ENGL	420	Senior Seminar in English	3

			Hours
At least one of the following:			3
ENGL	306	Medieval Literature	
ENGL	353	Literature of the Tudor Dynasty	
ENGL	354	The Golden Age	
ENGL	357	Literature of the Romantic Period	
ENGL	358	Literature of the Victorian Period	
ENGL	360	The English Novel	
ENGL	421	Shakespeare's Tragedies and Histories	
ENGL	422	Shakespeare's Comedies and Romances	
At least one of the following:			3
ENGL	302	American Literature 1607-1865	
ENGL	303	American Literature 1865-1999	
ENGL	337	American Multi-Ethnic Literature	
ENGL	366	Southern Literature	
Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	12
<i>Total Hours Required</i>			64

EQUESTRIAN MANAGEMENT MINOR

Required courses:			
EQMG	100	Introduction to Equine Studies and Management	3
EQMG	200	Farm and Stable Management	3
EQMG	260	Management of Equestrian Activities	3
EQMG	300	Principles and Theory of Riding Instruction	3
EQMG	415	Internship in Equestrian Management	3
At least one of the following:			1-2
EQMG	101	Introduction to Horses and Riding	
EQMG	201	Intermediate Hunt Seat Riding	
EQMG	301	Advanced Hunt Seat Riding	
<i>Total Hours Required</i>			16-17

*The student must be proficient in riding to the intermediate level and take at least one riding class for the minor. Thus, if they are already an accomplished rider they would take only EQMG 201 Intermediate Hunt Seat Riding or 301 Advanced Hunt Seat Riding. In these cases, the student would only require 16 credits. If they are novice riders, they would require the introductory class and EQMG 201 and, thereby, require 17 credits to complete the minor.

EQUESTRIAN SPORT MANAGEMENT MAJOR

Sport Management courses:			
SPMG	215	Sport Management Practicum	3
SPMG	260	Principles of Sport Management	3
SPMG	270W	Governance of Sport Organizations	3
SPMG	340	Sport Finance	3
SPMG	353	Sport Law 3	
SPMG	370	Sport Promotions and Marketing	3
SPMG	420	Sport Ethics and Current Issues	3
SPMG	441	Applied Leadership Principles in Sport Administration	3
Business courses:			
ACCT	200	Accounting for Business Leaders	3
ECON	201	Principles of Economics - Micro	3
MGMT	260	Principles of Management and Organizational Behavior	3
MKTG	209	Principles of Marketing	3
MGMT	262	Human Resource Management	3
Equestrian courses			
EQMG	100	Introduction to Equine Studies and Management	3
EQMG	200	Farm and Stable Management	3
EQMG	260	Management of Equestrian Activities	3
EQMG	300	Principles and Theory of Riding Instruction	3
EQMG	415	Internship in Equestrian Management	3

			Hours
*At least one of the following:			1-2
EQMG	101	Introduction to Horses and Riding	
EQMG	201	Intermediate Hunt Seat Riding	
EQMG	301	Advanced Hunt Seat Riding	
<i>Total Hours Required</i>			<u>55-56</u>

*The student must be proficient in riding to the intermediate level and take at least one riding class for the major. Thus, if they are already an accomplished rider they would take only EQMG 201 Intermediate Hunt Seat Riding or 301 Advanced Hunt Seat Riding. In these cases, the student would only require 55 credits. If they are novice riders, they would require the introductory class and EQMG 201 and, thereby, require 56 credits to complete the major.

FINANCE MINOR

The finance minor is designed to introduce students to the application of financial theories into business decision making. Students will learn the basic fundamentals of financial analysis as well as apply them in business scenarios. Students pursuing the minor will be highly proficient in statistical analysis and application thereby making them highly attractive in the financial world job market.

Required courses:			
ECON	305	Money, Credit, and Banking	3
FIN	317	Principles of Finance	3
FIN	318	Financial Management	3
FIN	405W	Investment Fundamentals	3
FIN	420	Financial Risk Management	<u>3</u>
<i>Total Hours Required</i>			15

Note: ACCT 200, ECON 201 and 202 are prerequisite classes for the 300-400 level courses above. For those students outside of the School of Professional and Applied Sciences interested in pursuing the minor, they would need to take these courses into consideration for its completion.

FINANCIAL ECONOMICS MAJOR

The financial economics major incorporates the study of economic processes involved in capital formulation and the theory and practice of financial decision making through the study of financial markets and institutions.

One of the following:			3
MATH	102	Precalculus	
MATH	103	Calculus I	
MATH	106	Liberal Arts Mathematics	
One of the following:			3
BUAD	241	Business Statistics	
STAT	222	Introductory Statistics	
Courses in the major:			
ACCT	200	Accounting for Business Leaders	3
ECON	201-202	Principles of Economics	6
ECON	300	Intermediate Macroeconomic Theory	3
ECON	301	Intermediate Microeconomic Theory	4
ECON	305	Money, Credit, and Banking	3
ECON	308	International Economic Policy	3
ECON	350	Econometrics	3
ECON	450W	Senior Seminar in Economics	3
FIN	317	Principles of Finance	3
FIN	318	Financial Management	3
FIN	405W	Investment Fundamentals	3
FIN		Other FIN course 400 and above	3
		Other ACCT, ECON or FIN courses 300 and above	<u>3</u>
<i>Total Hours Required</i>			49

FOREIGN LANGUAGE SPANISH EDUCATION MAJOR **This major will not be available after 9/1/24**

Required major courses:			
SPAN	202	Intermediate Spanish II	3
SPAN	221	Advanced Language Practice: Conversation	3
SPAN	222W	Advanced Language Practice: Composition	3
SPAN	351	Introduction to Spanish Linguistics	3
SPAN	470	Methodology of Teaching Second Languages	3
One from Culture and Civilization:			3
SPAN	340	The Culture and Civilization of Latin America	
SPAN	341	The Culture and Civilization of Spain	
One from Literature:			3
SPAN	460W	Literature in Spanish: Latin America	
SPAN	461W	Literature in Spanish: Spain	
Choose three Spanish electives:			9
SPAN	311	Cinema in Spanish	

			Hours
SPAN	340	The Culture and Civilization of Latin America	
SPAN	341	The Culture and Civilization of Spain	
SPAN	377	Study Abroad	
SPAN	397	Independent Study in Spanish	
SPAN	398	Special Topics in Spanish	
SPAN	399	Internship in Spanish	
SPAN	441	Advanced Conversation and Culture through Spanish Language Resistance Music	
SPAN	442	Advanced Conversation and Culture through Documentary Film in Spanish	
SPAN	460W	Literature in Spanish: Latin America	
SPAN	461W	Literature in Spanish: Spain	
SPAN	478	Honors Thesis	

Required professional studies courses:

EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	<u>12</u>
<i>Total Hours Required</i>			64

HEALTH AND PHYSICAL EDUCATION MAJOR

The health and physical education program is committed to providing a rigorous PK-12 educator licensing program that prepares candidates to be professionals and leaders who are equipped to address the demands of today's educational environment for all students. The program prepares reflective practitioners who collaborate effectively with families, colleagues, and other professionals, and who affect positive outcomes for students. The major in health and physical education enhances the development of teacher candidates by: (a) incorporating the competencies required by the Virginia Department of Education, (b) developing theory-to-practice through a cohesive curriculum that promotes a deep understanding of content and pedagogy, and (c) providing practical learning experiences.

Prospective candidates must apply to the Educator Preparation Program by submitting a complete application to the School of Professional and Applied Sciences by May 1 of the sophomore year or, if a junior transfer student, no later than February 1 of the junior year. A complete application includes completion of the core courses listed below, and submitting passing VCLA scores. In addition to the requirements for the Educator Preparation Program, candidates are required to have a background check prior to some courses with field assignments. Prior to student teaching, students must take and pass the Praxis II in their content area, meet GPA requirements, and apply to be admitted to student teaching. In addition, candidates must possess the necessary dispositions for teaching. Please refer to the website for the most up-to-date requirements.

Core courses

EDUC	110	Human Diversity in American Schools	3
HPE	258	Foundations of Health and Physical Education	3
HPE	304W	Sport, Exercise, and Performance Psychology	3
SPED	220	Introduction to Exceptionalities	3

Required major courses:

BIOL	224	Human Anatomy and Physiology I	4
BIOL	225	Human Anatomy and Physiology II	4
EXPH	325	Physiology of Exercise	3
EXPH	380	Kinesiology	3
HPE	116	The Teaching of Team Sports	2
HPE	118	The Teaching of Individual Sports and Dance	2
HPE	119L	The Teaching of Outdoor Pursuits and Fitness Education	2
HPE	259	School Health Content	2
HPE	303W	Human and Motor Development	3
HPE	310	PK-5 Physical Education Curriculum and Methods	4
HPE	320	6-12 Physical Education Curriculum and Methods	4
HPE	335	Comprehensive School Health Curriculum and Methods	4
HPE	361	Assessment in Health and Physical Education	3
HPE	363	Health and Physical Education for Exceptional Populations	2
H P	270	Nutrition	3
LVWL	100	21st Century Wellness	2

Required professional studies courses:

EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
HPE	468	Student Teaching in Health and Physical Education PK-12	<u>12</u>
<i>Total Hours Required</i>			77

*A minimum grade of C- is required for courses in the program except for the field experience courses and student teaching, where a minimum grade of a B- is required.

HISTORY AND SOCIAL STUDIES EDUCATION MAJOR

Required major courses:

ECON	100	Economic Perspectives	3
ENVS	211	Physical Geography	3
HIST	103W	Turning Points in World History	3

			Hours
HIST	200W	The Historian's Craft	3
HIST	255	America to 1877	3
HIST	256	America since 1877	3
HIST	347W	Slavery and Race in the Early Americas	3
HIST	348	Racism and Empire in the American Context	3
HIST	402W	History Senior Thesis Seminar	3
POLI	220	The American Political Experience	3
POLI	258	State and Local Government and Politics	3

While competencies are addressed in the above courses, teacher-candidates need additional content; thus, they are required to complete an additional nine hours in the following areas:

Pre-Modern European History:			3
HIST	305	England in the Middle Ages	
HIST	311	Medieval Culture	
HIST	312	Renaissance and Reformation	
Modern European History:			3
HIST	322	Europe Since 1914	
HIST	353	The Holocaust	
HIST	388	Modern Europe and the World	
Non-Western History:			3
HIST	243	Contemporary Africa	
HIST	275	Latin American History	
HIST	343	South African History	
HIST	375	History of Love and Sex in Latin America	
Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	<u>12</u>
<i>Total Hours Required</i>			76

JOURNALISM MINOR

Core courses:			
COMM	104	Introduction to Media Technology	3
COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
Nine hours from:			9
COMM	180	Stage and Studio Television	
COMM	202	Multimedia Design and Storytelling	
COMM	377	Study Abroad	
COMM	381	Mobile and Social Media Reporting	
COMM	382	Documentary Design and Production	
COMM	405	Communication Law and Ethics	
COMM	411	Supervised Practicum	
COMM	450	Investigative Storytelling	
<i>Total Hours Required</i>			<u>18</u>

MANAGEMENT MAJOR - GENERAL EMPHASIS **This major will not be available after 9/1/24**

Management as a field of study is most often associated with business. Its subject matter can also be applied in a broad range of additional settings from the management of one's own personal resources to those of nonprofit, governmental, educational, and health care organizations.

Management study is recommended for those individuals who desire the knowledge and skill to influence others and develop business processes that can positively influence organizational productivity. The principles of management can be effectively applied in a broad range of group, organizational, and social settings. Students of management are trained to be decision-makers, problem solvers, project managers, and leaders.

Courses in the business core:			
ACCT	200	Accounting for Business Leaders	3
BUAD	100	Perspectives on Business	3
BUAD	185	Spreadsheets for Business	3
BUAD	241	Business Statistics	3
BUAD	441W	Integrated Application of Business Principles	3
ECON	201	Principles of Economics - Micro	3
ECON	202	Principles of Economics - Macro	3
FIN	317	Principles of Finance	3
MGMT	260	Principles of Management and Organizational Behavior	3
MGMT	262	Human Resource Management	3

			Hours
MGMT	310	Management Information Systems	3
MGMT	344	Operations Management	3
MKTG	209	Principles of Marketing	3
Major courses:			
BUAD	265	Leadership and the Classics	3
MGMT	303	International Management and Negotiations	3
MGMT	360	Project Management	3
MGMT	477	Management Consulting	3
Two courses from:			
ACCT	325	Management Accounting	6
BUAD	243	Data Mining	
BUAD	322	Legal Environment of Business	
MGMT	101	Freshman Seminar in Management	
MGMT	377	Study Abroad: International Management	
MGMT	399	Internship in Management	
PSYC	243	Psychology of Diversity	
PSYC	265	Industrial/Organizational Psychology	
PSYC	306	Theories of Personality	
<i>Total Hours Required</i>			57

MANAGEMENT MAJOR - HUMAN RESOURCE EMPHASIS **This major will not be available after 9/1/24**

The human resource emphasis provides students with broad knowledge about business and management, as well as in-depth knowledge about human resource management. The program will prepare students to enter a variety of human resource management related fields, such as recruiting and selection, training and development, change management; compensation, performance management, and employee relations.

Courses in the business core:			
ACCT	200	Accounting for Business Leaders	3
BUAD	100	Perspectives on Business	3
BUAD	185	Spreadsheets for Business	3
BUAD	241	Business Statistics	3
BUAD	441W	Integrated Application of Business Principles	3
ECON	201	Principles of Economics - Micro	3
ECON	202	Principles of Economics - Macro	3
FIN	317	Principles of Finance	3
MGMT	262	Human Resource Management	3
MGMT	260	Principles of Management and Organizational Behavior	3
MGMT	310	Management Information Systems	3
MGMT	344	Operations Management	3
MKTG	209	Principles of Marketing	3
Major courses:			
BUAD	322	Legal Environment of Business	12
MGMT	321	Training, Development, and Change	
MGMT	364	Workforce Planning, Staffing, and Compensation	
MGMT	477	Management Consulting	
Two courses from:			
ACCT	325	Management Accounting	6
BUAD	243	Data Mining	
BUAD	265	Leadership and the Classics	
HMSV	201	The Science and Art of Meeting Human Need	
PSYC	212	Introduction to Behavior Modification	
PSYC	215	Health Psychology	
PSYC	265	Industrial/Organizational Psychology	
MGMT	377	Study Abroad	
MGMT	399	Internship in Human Resource Management	
<i>Total Hours Required</i>			57

MARKETING MAJOR

Marketing is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives.

Courses in the business core:			
ACCT	200	Accounting for Business Leaders	3
BUAD	100	Perspectives on Business	3
BUAD	185	Spreadsheets for Business	3
BUAD	241	Business Statistics	3
BUAD	441W	Integrated Application of Business Principles	3
ECON	201	Principles of Economics-Micro	3
ECON	202	Principles of Economics-Macro	3
FIN	317	Principles of Finance	3
MGMT	260	Principles of Management and Organizational Behavior	3

			Hours
MGMT	262	Human Resource Management	3
MGMT	310	Management Information Systems	3
MGMT	344	Operations Management	3
MKTG	209	Principles of Marketing	3
Courses in marketing:			
MKTG	371	Marketing Analytics	3
MKTG	375W	Consumer and Buyer Behavior	3
MKTG	379	Marketing Communications	3
MKTG	451	Marketing Management	3
Two of the following:			
*BUAD	397	Independent Study in Business	6
MKTG	200	Social Media Marketing	
MKTG	372	Sales and Sales Management	
MKTG	374	Retailing and Merchandising	
MKTG	377	Study Abroad: International Marketing	
MKTG	380	Services Marketing	
MKTG	398	Special Topics in Marketing	
*MKTG	399	Internship in Marketing	
MKTG	425	Interactive Marketing	
<i>Total Hours Required</i>			<u>57</u>

*Only one of these can be taken towards satisfying the six hours.

MARKETING MINOR

MKTG	209	Principles of Marketing	3
MKTG	375W	Consumer and Buyer Behavior	3
MKTG	379	Marketing Communications	3
One of the following:			
BUAD	100	Perspectives on Business	3
MKTG	101	Freshman Seminar in Marketing	
One of the following:			
MKTG	200	Social Media Marketing	3
MKTG	371	Marketing Analytics	
MKTG	372	Sales and Sales Management	
MKTG	374	Retailing and Merchandising	
MKTG	380	Services Marketing	
MKTG	398	Special Topics in Marketing	
MKTG	399	Internship in Marketing	
MKTG	425	Interactive Marketing	
<i>Total Hours Required</i>			<u>15</u>

MATHEMATICS EDUCATION MAJOR

Required major courses:			
C S	131	Fundamentals of Programming	3
MATH	103	Calculus I	3
MATH	104	Calculus II	3
MATH	260W	Mathematical Reasoning and Proof	3
MATH	304	College Geometry	3
MATH	307	Linear Algebra	3
MATH	350W	Experimental Mathematics	3
MATH	405	Abstract Algebra	3
MATH	407	Advanced Calculus	3
MATH	451W	Senior Research	3
STAT	222	Introductory Statistics	3
Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
EDUC	222	Human Diversity and Exceptionalities 6 – 12	3
EDUC	339	Curriculum, Methods, and Assessment 6 -12	3
EDUC	351	Reading in the Content Areas	3
EDUC	362	Classroom and Behavior Management	3
EDUC	444	Field Experience II (S)	3
EDUC	480	Student Teaching 6 -12	<u>12</u>
<i>Total Hours Required</i>			<u>67</u>

MUSIC EDUCATION MAJOR – INSTRUMENTAL EDUCATION EMPHASIS **This major will not be available after 9/1/24**

			Hours
MUSC	102	World Music and Culture	3
MUSC	104	Introduction to Music Theory and Aural Skills	3
MUSC	105	Diatonic Harmony	3
MUSC	107	Intermediate Aural Skills	1
*MUSC	108-109	Piano Class I, II	2
MUSC	111	Music Technology	1
MUSC	204	Chromatic Harmony and Commercial Music	3
MUSC	206-207	Advanced Aural Skills I, II	2
MUSC	210W	Form and Post-Tonal Analysis	3
MUSC	248	Beginning Choral and Instrumental Conducting	2
MUSC	249	Rehearsing from the Podium	2
MUSC	302W-303	Music History and Literature I, II	6
MUSC	402W	Senior Seminar in Music Performance	2

Ensemble: 8

Each music education major is required to participate for credit in at least one of the music program ensembles each semester. Students must participate in at least six credits of a large ensemble and two credits of a small ensemble. A maximum of two ensembles may be taken for credit per semester.

Large Ensembles:		Small Ensembles:	
MUSC	018	Orchestra	MUSC 016 Percussion Ensemble
MUSC	021	Wind Symphony	MUSC 017 Brass Ensemble
			MUSC 019 Chamber Music Ensemble
			MUSC 020 Jazz Ensemble
			MUSC 023 Handbell Choir

Applied Music Lessons: 7

Students majoring in music education are required to choose the category in applied music as their major instrument. It is expected they will register for one credit in this applied area each semester that they are in residence at the University.

MUSC	001	Piano
MUSC	002	Organ
MUSC	004	Woodwinds
MUSC	005	Brass
MUSC	006	Percussion
MUSC	007	Strings
MUSC	010	Guitar

Applied Music Lessons for the senior recital:			1
MUSC	081	Piano	
MUSC	082	Organ	
MUSC	084	Woodwinds	
MUSC	085	Brass	
MUSC	086	Percussion	
MUSC	087	Strings	
MUSC	090	Guitar	

Instrumental Music Education:			
MUSC	110	Voice Class	1
MUSC	163	Introduction to Music Education	2
MUSC	164	Service Learning in Music	1
MUSC	226	Percussion Methods	1
MUSC	227	String Methods	1
MUSC	233	Instrumental Methods and Techniques I	1
MUSC	234	Instrumental Methods and Techniques II	1
MUSC	263	Curriculum and Assessment in Music	2
MUSC	264	Field Experience Secondary (Lab)– Music in Secondary Education	2
MUSC	363	Music in Elementary and Special Education	2
MUSC	364	Field Experience Elementary (Lab) – Music in Elementary and Special Education	1
MUSC	400	Arranging and Orchestration	2

Other music requirements:

Concert Attendance - For details, consult the Music Undergraduate Handbook

Senior Recital (at least 25 minutes; consult the Music Undergraduate Handbook)

Required professional studies courses:			
EDUC	120	Educational Psychology and Human Development	3
EDUC	351	Reading in the Content Areas	3
MUSC	460	Student Teaching in Music	12
SPED	220	Introduction to Exceptionalities	<u>3</u>
<i>Total Hours Required</i>			87

*Piano Proficiency Exam may substitute for these courses

MUSIC EDUCATION MAJOR - VOCAL EDUCATION EMPHASIS **This major will not be available after 9/1/24**

			Hours
MUSC	102	World Music and Culture	3
MUSC	104	Introduction to Music Theory and Aural Skills	3
MUSC	105	Diatonic Harmony	3
MUSC	107	Intermediate Aural Skills	1
MUSC	108-109*	Piano Class I, II	2
MUSC	111	Music Technology	1
MUSC	204	Chromatic Harmony and Commercial Music	3
MUSC	206-207	Advanced Aural Skills I, II	2
MUSC	210W	Form and Post-Tonal Analysis	3
MUSC	248	Beginning Choral and Instrumental Conducting	2
MUSC	249	Rehearsing from the Podium	2
MUSC	302W-303	Music History and Literature I, II	6
MUSC	402W	Senior Seminar in Music Performance	2

* Piano Proficiency Exam may substitute for these courses.

Ensemble: 8

Each music education major is required to participate for credit in at least one of the music program ensembles each semester. Students must participate in at least six credits of a large ensemble and two credits of a small ensemble. A maximum of two ensembles may be taken for credit per semester.

Large Ensembles:

MUSC	022	Concert Choir
MUSC	025	Choral Union

Small Ensembles:

MUSC	024	Chamber Choir
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Applied Music Lessons 7

Students majoring in music are required to choose the category in applied music as their major instrument. It is expected they will register for one credit in this applied area each semester that they are in residence at the University.

MUSC	001	Piano
MUSC	002	Organ
MUSC	003	Voice

Applied Music Lessons for the senior recital: 1

MUSC	081	Piano
MUSC	082	Organ
MUSC	083	Voice

Vocal Music Education:

MUSC	110	Voice Class	1
MUSC	140	Diction for Singers I	1
MUSC	163	Introduction to Music Education	2
MUSC	164	Service Learning in Music	1
MUSC	222	Accompanying	1
MUSC	223	Choral Methods	1
MUSC	228	Instrumental Survey	1
MUSC	263	Curriculum and Assessment in Music	2
MUSC	264	Field Experience Secondary (Lab)– Music in Secondary Education	2
MUSC	363	Music in Elementary and Special Education	2
MUSC	364	Field Experience Elementary (Lab) – Music in Elementary and Special Education	1
MUSC	400	Arranging and Orchestration	2

Other music requirements:

Concert Attendance - For details, consult the Music Undergraduate Handbook
Senior Recital (at least 25 minutes; consult the Music Undergraduate Handbook)

Required professional studies courses:

EDUC	120	Educational Psychology and Human Development	3
EDUC	351	Reading in the Content Areas	3
MUSC	460	Student Teaching in Music	12
SPED	220	Introduction to Exceptionalities	<u>3</u>
<i>Total Hours Required</i>			87

POPULAR CULTURE MINOR

Students pursuing this interdisciplinary minor will develop the aesthetic and theoretical skills needed to understand the pervasive role of popular culture in contemporary life. As popular culture is both a commercial commodity and a creation of the people, this minor focuses on the production and interpretation of meaning in popular culture.

Required courses:

COMM	171	Media and Culture	3
COMM	372	Media Criticism	3
SOCI	201	Social Life in America	3
SOCI	203	Culture, Identity, and Consumption	3

Six hours from: 6

ART	205	20th Century Art and Contemporary Issues
COMM	229	Introduction to Film

			Hours
COMM	275	Visual Rhetoric	
COMM	394	Culture Industries, Audiences, and the Superhero	
COMM	395	Cultural Impact of Popular Television	
MUSC	215	Jazz and the Origins of Rock Music	
SOCI	233	Music, Culture, and Representation	
SOCI	253	Globalization and Cinema	
SOCI	339	Sociology of the South	
SOCI	374	Fieldwork	
SPMG	265	Gender and Sport: Issues and Controversies	
SPMG	285	Sport in American Society	
THEA	212W	Theatre History and Literature II	
<i>Total Hours Required</i>			18

PUBLIC RELATIONS MINOR

COMM	171	Media and Culture	3
COMM	201W	Media Writing	3
COMM	260	Introduction to Public Relations	3
Nine hours from:			9
COMM	104	Introduction to Media Technology	
COMM	202	Multimedia Design and Storytelling	
COMM	341	Professional and Organizational Communication	
COMM	350	Dissent and Political Communication	
COMM	362	Crisis Communication	
COMM	377	Study Abroad	
COMM	382	Documentary Design and Production	
COMM	405	Communication Law and Ethics	
COMM	440	Public Relations Media and Campaigns	
<i>Total Hours Required</i>			18

SOCIAL INFLUENCE AND ADVOCACY MINOR

Core courses:			
COMM	112	Interpersonal Communication	3
COMM	171	Media and Culture	3
COMM	230W	Persuasion	3
Nine hours from:			9
COMM	114	Small Group Communication	
COMM	228	Public Presentation in a Digital Age	
COMM	232	Debate and Freedom of Speech	
COMM	251	Intercultural Communication	
COMM	260	Introduction to Public Relations	
COMM	270	Social Media Communication	
COMM	301	The American Voice: Analyzing Discourse in Public Life	
COMM	341	Professional and Organizational Communication	
COMM	350	Dissent and Political Communication	
COMM	377	Study Abroad	
COMM	398	Special Topics in Communication	
COMM	405	Communication Law and Ethics	
<i>Total Hours Required</i>			18

SPECIAL EDUCATION MAJOR-GENERAL CURRICULUM (K-12) **This major will not be available after 9/1/24**

The special education major - general curriculum program is committed to providing a rigorous K-12 educator licensing program that prepares candidates to be professionals and leaders who are equipped to address the demands of today's educational environment for students with disabilities. The program prepares reflective practitioners who collaborate effectively with families, colleagues, and other professionals, and who affect positive outcomes for students with diverse needs. The special education major has two tracks, one that leads to a full teaching license upon graduation and the other that does not lead to licensure. If a student wishes to become a licensed special education teacher, the licensure track is the most appropriate. If the student wants to go into a disability-related field or wishes to obtain a provisional license through a school division, the appropriate track would be the non-licensure track. Professional courses begin in the second year and follow a prescribed sequence. Courses from other disciplines may be taken at any time during the candidate's program.

Licensure Track

The licensure track in Special Education - General Curriculum enhances the development of teacher candidates by: (a) incorporating the competencies required by the Virginia Department of Education, (b) developing theory-to-practice through a cohesive curriculum that promotes a deep understanding of content and pedagogy, and (c) providing practical learning experiences. Core courses are taken in the first and second years of a candidate's program. Prospective candidates must apply to the Educator Preparation Program by submitting a complete application to the School of Professional and Applied Sciences by May 1 of the sophomore year or, if a junior transfer student, no later than February 1 of the junior year. A complete application includes completion of the core courses listed below, and submitting passing VCLA scores. In addition to the requirements for the Educator Preparation Program, candidates are required to have a background check prior to some courses and with field assignments. Prior to student teaching, students must meet GPA requirements and apply to be admitted to student teaching. In addition, candidates must possess the necessary dispositions for teaching, which will be assessed throughout the program. Please refer to the website for the most up-to-date requirements. The special education major is designed for individuals who will work with kindergarten -12th graders in the general curriculum teaching situations. A minimum grade of C- is required for courses in the major, except for courses with field experience and student teaching, where a minimum of B- is required.

Non-Licensure Track

Students who are interested in special education and wish to pursue an advanced degree in a special education-related field but do not necessarily want to teach in

a school can declare the Special Education non-licensure track option. Students in the non-licensure track will complete the same coursework as the licensure track with the exception of the additional courses required for licensure. Testing will not be necessary for the non-licensure track, although a student seeking to pursue a provisional license may need to take professional tests prior to employment.

Core courses:			Hours
EDUC	110	Human Diversity in American Schools	3
EDUC	120	Educational Psychology and Human Development	3
EDUC	210	Foundations of Education and the Teaching Profession	4
SPED	220	Introduction to Exceptionalities	3
Professional courses:			
EDUC	220	Assessment of and for Learning	3
EDUC	240	Curriculum, Instruction, and Assessment	3
EDUC	309	Early Childhood Development, Language, and Literacy I	3
EDUC	310W	Language and Literacy II	4
EDUC	362	Classroom and Behavior Management	3
EDUC	419	STEM Methods for Elementary Teaching	4
SPED	231	Collaboration	3
SPED	232	Characteristics of Low Incidence Disabilities	3
SPED	332	Characteristics of High Incidence Disabilities	3
SPED	337	Methods for Academic Content	3
SPED	338	Advanced Assessment and IEP Development	4
SPED	400	Advanced Behavior Management	3
SPED	402	Transition in Special Education	<u>3</u>
<i>Total Hours Required</i>			55
Additional requirements for licensure track:			
SPED	403	Field Experience in Special Education	3
SPED	495	Student Teaching	<u>12</u>
<i>Total Additional Hours Required for Licensure Track</i>			15
Electives: Students may choose to complete any of the following courses that address Virginia Department of Education competencies for Special Education Adapted Curriculum. These are not required for the major in Special Education General Curriculum.			
SPED	320	Individualized Supports and Specialized Care of Students with Significant Support Needs	3
SPED	325	Adapted Instructional Methods and Strategies	3
Optional courses from other disciplines: (these courses are not required for licensure, but are recommended for candidates based on areas of instructional interest)			
ENGL	315	Grammar	3
MATH	117	Introduction to School Mathematics	3

SPORT MANAGEMENT MAJOR

The sport management major is a professional program leading to careers in management and administration of college and professional sport programs, community recreation, YMCAs and YWCAs, sports sales and marketing, public relations and marketing for college and professional sports organizations.

The program prepares students to succeed in this diverse and challenging field in which participation in sports for health, leisure, education, or entertainment continues to expand throughout the world. Commerce in sports represents an expanding market that transcends age, gender, race, religion, language, nationality, and geography. Consequently, this program blends general education studies with business skills and concepts and interprets them in current sports settings via professional courses to be tested during the student's internship opportunities, and, ultimately, to be practiced in professional service.

Sport management core:			
SPMG	215	Sport Management Practicum	3
SPMG	260	Principles of Sport Management	3
SPMG	270W	Governance of Sport Organizations	3
SPMG	340	Sport Finance	3
SPMG	353	Sport Law	3
SPMG	368	Sport Facilities and Event Management	3
SPMG	370	Sport Promotions and Marketing	3
SPMG	415	Internship in Sport Management	6-12
SPMG	420	Sport Ethics and Current Issues	3
SPMG	441	Applied Leadership Principles in Sport Administration	3
Sociocultural courses:			
SPMG	265	Gender and Sport: Issues and Controversies	3
SPMG	275	History of Sport in America	
SPMG	285	Sport in American Society	
Business courses:			
ACCT	200	Accounting for Business Leaders	3
ECON	201	Principles of Economics - Micro	3
MGMT	260	Principles of Management and Organizational Behavior	3
MKTG	209	Principles of Marketing	3

School of Business courses:		Hours
ACCT	Other ACCT courses 200 and above	6
BUAD	Other BUAD courses 200 and above	
ECON	Other ECON courses 200 and above	
FIN	Other FIN courses 200 and above	
MGMT	Other MGMT course 200 and above	
MKTG	Other MKTG courses 200 and above	
<i>Total Hours Required</i>		<u>54-60</u>

It is highly recommended that each sport management major have a supporting area, some examples of which are a coaching minor, public relations/journalism minor, sports medicine minor, economics minor, or sociology minor.

SPORT MANAGEMENT MINOR

The sport management minor may be a beneficial specialized area for students majoring in the following areas, among others: marketing, business administration, management, and communication studies.

Required courses:			
MGMT	260	Principles of Management and Organizational Behavior	3
SPMG	260	Principles of Sport Management	3
SPMG	353	Sport Law	3
Sport sociocultural elective:			3
SPMG	265	Gender and Sport: Issues and Controversies	
SPMG	275	History of Sport in America	
SPMG	285	Sport in American Society	
Additional sport management electives:			6
SPMG	270W	Governance of Sport Organizations	
SPMG	340	Sport Finance	
SPMG	368	Sport Facilities and Event Management	
SPMG	370	Sport Promotions and Marketing	
SPMG	420	Sport Ethics and Current Issues	
SPMG	441	Applied Leadership Principles in Sport Administration	
<i>Total Hours Required</i>			<u>18</u>

SPORTS MEDIA MINOR

The sports media minor is a cross-disciplinary study of the coverage of sports in media. Students will explore theoretical communication concepts in conjunction with fundamental skills of sports media production. Students participating in this minor build their practical experience through an internship with the Lynchburg Hornet Sports Network (LHSN) or a comparable organization.

COMM	104	Introduction to Media Technology	3
COMM	201W	Media Writing	3
SPMG	160	Sports Broadcasting	3
One from:			3
COMM	180	Stage and Studio Television	
COMM	202	Multimedia Design and Storytelling	
One from:			3
COMM	304	Digital Editing and Motion Graphics	
COMM	381	Mobile and Social Media Reporting	
One from:			3
SPMG	265	Gender and Sport: Issues and Controversies	
SPMG	275	History of Sport in America	
SPMG	285	Sport in American Society	
One from:			3
COMM	399	Internship in Communication	
SPMG	415	Internship in Sport Management	
<i>Total Hours Required</i>			<u>21</u>

COURSE DESCRIPTIONS

Course Level Descriptions

100-199	Introductory level: primarily for freshmen
200-299	Intermediate level: in some cases presupposes introductory coursework, related experience, or intellectual maturity; primarily for freshmen and sophomores
300-399	Advanced level: usually presupposes previous work and involves specialized study of a subject; primarily for juniors and seniors
400-499	Culminating level: presupposes extensive previous work in the discipline and well-developed discipline-specific skills; usually taken by seniors

Course Descriptions (Credit in semester hours is indicated by a number in parentheses.)

ACCESS COURSES (ACCS)

ACCS 106 INTERCULTURAL COMPETENCE SEMINAR I (3) First in a two-course series, this is a seminar-style course designed for individuals who have experience in the professional work environment and/or adult learners seeking growth and development through continued professional studies. Students enrolled in this course must be currently enrolled in one of the degree programs authorized for the Access Language and Intercultural Competence Pathway for the DELL General Education Curriculum. Using an integrative approach, the seminar invites students to more deeply understand their own culture and consider how it influences how they view the world around them. In doing so students explore concepts including cultural desire, self-awareness, cultural awareness, ethnocentrism, cultural identity, cultural humility, and cultural knowledge.

ACCS 107 INTERCULTURAL COMPETENCE SEMINAR II (3) *Prerequisite: ACCS 106.* Second in a two-course series, this is a seminar-style course designed for individuals who have experience in the professional work environment and/or adult learners seeking growth and development through continued professional studies. Students enrolled in this course must be currently enrolled in one of the degree programs authorized for the Access Language and Intercultural Competence Pathway for the DELL General Education Curriculum. Building on the content of the preceding seminar, students will apply intercultural competence knowledge and skills to address complex problems using interdisciplinary perspectives. With a particular focus on the diverse workforce in the 21st Century, students will develop a final product in which indicators of intercultural competence, including cross-cultural knowledge and skills, are reflected in the proposed solution to a global/cross-cultural challenge.

ACCOUNTING COURSES (ACCT)

ACCT 200 ACCOUNTING FOR BUSINESS LEADERS (3) Students are introduced to the basics of managerial accounting concepts and their application to business decision-making. An introduction to financial statement analysis is also included.

ACCT 301 INTERMEDIATE ACCOUNTING I (3) *Prerequisite: ACCT 200 (C- or better)* This is the first course in a three-course sequence of financial accounting related to the accounting cycle, financial statements, revenue recognition, inventory, and operational assets.

ACCT 302 INTERMEDIATE ACCOUNTING II (3) *Prerequisites: ACCT 200, 301.* This is the second course in a three-course sequence of financial accounting related to liabilities, taxes, investments, cash flow, leases, and pensions.

ACCT 303W INTERMEDIATE ACCOUNTING III WITH THEORY [Writing Enriched] (3) *Prerequisites: ACCT 302 and C- or better grade in BIOL 113-114, CHEM 111, and ENGL 123W, HONR 103W or equivalent.* This is the third course in a three-course sequence of financial accounting related to derivatives, earnings per share, shareholders' equity, and accounting changes. The theoretical frameworks that support financial accounting/reporting will also be explored.

ACCT 310 GOVERNMENTAL/NON-PROFIT ACCOUNTING (3) *Prerequisite: ACCT 301.* This course is a study of accounting principles and practices of governmental and non-profit institutions.

ACCT 311 PERSONAL INCOME TAX (3) Students will study the philosophy of taxation, the general concepts of gross income, tax accounting methods, depreciation, tax incentives, capital gains and losses, and specific forces on tax laws as they apply to individuals.

ACCT 313 STRATEGIC COST MANAGEMENT (3) *Prerequisites: ACCT 200.* This course deals with concepts and objectives of cost accounting; cost information systems and accumulation procedures; planning and control of factory overhead; materials and labor planning and control; planning of profits, costs, and sales; controlling costs and profits; and costs and profit analysis.

ACCT 319 CORPORATE AND PARTNERSHIP TAXATION (3) This course, designed for marketing, management, economics, business administration, and accounting majors, covers federal income taxation of corporations and partnerships. It includes basic tax planning strategies and introduces tax research techniques.

ACCT 323 BUSINESS LAW FOR ACCOUNTANTS (3) This course is a study of the accountant's legal responsibility including contracts, uniform commercial code, secured transactions, securities, suretyship, and bankruptcy.

ACCT 325 MANAGEMENT ACCOUNTING (3) *Prerequisite: ACCT 200.* This course addresses many accounting tools including cost behavior, budgeting, and performance reporting used by managers to assist them in operating business decisions.

ACCT 360 ACCOUNTING INFORMATION SYSTEMS (3) *Prerequisite: ACCT 200.* Accounting information systems comprise interrelated activities, documents, and technologies designed to collect data, process them, and report information to a diverse group of internal and external decision makers in organizations. This course covers the design, management and control, and audit of computer-based accounting systems.

ACCT 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

ACCT 397 INDEPENDENT STUDY IN ACCOUNTING (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

ACCT 398 SPECIAL TOPICS IN ACCOUNTING (1-3) [Credit depends on topic.] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

ACCT 399 INTERNSHIP IN ACCOUNTING (1-6) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, and supervising faculty prior to registration.* Internships are offered in cooperation with a sponsoring individual or organization to provide students with ongoing educational opportunities in accounting beyond the classroom that are appropriately related to their area of emphasis. (See "Internships.")

ACCT 401 ADVANCED ACCOUNTING (3) *Prerequisites: ACCT 301-302.* This course focuses on the study of specialized accounting theory and techniques of partnerships and consolidations.

ACCT 421 AUDITING PRINCIPLES (3) *Prerequisites: ACCT 301-302.* This course examines the concepts and procedures used in auditing and introduces auditing standards and methods used to obtain evidence.

ACCT 470 FORENSIC ACCOUNTING (3) *Prerequisite: ACCT 200.* Forensic accounting is the application of investigative and analytical skills to resolve financial issues in a manner that meets standards required by courts of law. This course covers the accounting and legal foundations of forensic accounting, forensic accounting tools and standards, and common applications of forensic accounting including fraud investigation, organized crime and terrorism.

AFRICANA STUDIES COURSES (AFRS)

AFRS 101 INTRODUCTION TO AFRICANA STUDIES (3) This course focuses on historical and contemporary experiences of African descendants in the Americas, particularly the United States, the Caribbean, and Latin America. It introduces students to the complexities, struggles, and successes of people of African descent around the world. This interdisciplinary survey course combines the social sciences with the humanities, as we examine the role of race, the mechanics of global slavery, and the importance of both in the making and shaping of the modern world. The course also considers identity construction and formation; as well as literary, cultural, and aesthetic theories and practices in the African diaspora.

AFRS 377 STUDY ABROAD (3) Through travel to another country, the course provides the student the opportunity to study the historical, political, economic and cultural development of that country and compare it with the development of the United States.

AFRS 397 INDEPENDENT STUDY IN AFRICANA STUDIES (1-3) This course provides students with the opportunity to pursue individual study of topics in Africana Studies not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor, and credit is dependent on the nature of the work. May be repeated for not more than six credits.

AFRS 398 SPECIAL TOPICS IN AFRICANA STUDIES (3) *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently more than one may be taken by a student during his/her matriculation.

AFRS 399 INTERNSHIP IN AFRICANA STUDIES (3) *Prerequisite: Approval of written proposal by internship coordinator and supervising faculty prior to registration.* Students may earn college credit for participation in an internship with a company, a government agency, or a non-profit organization. The program and the responsible organization administrator will jointly supervise students. The internship is expected to provide the student with an opportunity to apply in a practical way the study of issues that connect to the history and culture of Africans, African-Americans, and Afro-Caribbeans.

AFRS 400 COMMUNITY-ENGAGED CAPSTONE IN AFRICANA STUDIES (3) *Prerequisites: Successful completion of 30 credit hours in the Africana Studies major, with at least two three-credit hour courses at the 300-level or above, and senior standing.* The community-engaged capstone course provides an interdisciplinary and experiential-learning based opportunity for students to engage in a project examining issues of relevance to African, African Diaspora, and/or African American people and/or communities. Students apply and analyze concepts addressed in the class sessions to their community-engaged projects, with particular focus on the synthesis of knowledge and critical reflection on topics covered throughout the Africana Studies Major curriculum. A student's project is conceived prior to the start of the semester and executed during the semester of enrollment under the joint supervision of the Director of the Center for Community Development and Social Justice (CCDSJ) and a leader of a non-academic partner organization (community partner).

AMERICAN SIGN LANGUAGE COURSES (ASL)

ASL 101 AMERICAN SIGN LANGUAGE I (3) This course introduces the basics of American Sign Language (ASL), and is designed for students with no or minimal sign language. It aims to develop students' basic skills in use of ASL. Emphasis is upon acquisition of comprehension, production and interactional skills using basic grammatical features. ASL will be taught within contexts and related to general surroundings and everyday life experiences, with an emphasis on building knowledge and understanding of the Deaf culture

ASL 102 AMERICAN SIGN LANGUAGE II (3) *Prerequisite: ASL 101.* This introductory course aims to further develop students' basic skills in the use of American Sign Language, building upon the basic grammatical, linguistic, communicative and cultural concepts learned in ASL 101. Emphasis is upon further acquisition of comprehension, production and interactional skills in ASL with an emphasis on increasing knowledge and understanding of the Deaf culture, exposure to ASL literature and art.

ASL 201 INTERMEDIATE ASL I (3) *Prerequisite: ASL 102.* This intermediate course continues to help students develop vocabulary, conversational competence, and grammatical knowledge with a total immersion approach. Introduces increasingly complex grammatical aspects, including those unique to ASL. Builds on students' understanding of ASL culture, literature and art. Encourages contact with the Deaf Community to enhance linguistic and cultural knowledge.

ASL 202 INTERMEDIATE ASL II (3) *Prerequisite: ASL 201.* This intermediate course continues to help students develop and broaden comprehension and production skills, emphasizing increasingly complex grammar as well as the expansion of vocabulary, conversational competence, and the interactive use of ASL. Builds on students' understanding of ASL culture, art, and literature, focusing on short stories and narratives. Students will continue to study in depth the Deaf community and Deaf culture globally.

ART COURSES (ART)

ART 110 INTRODUCTION TO VISUAL ART (3) Students will become familiar with the significance of the visual arts through the study of its themes, artists, styles, and forms. In this course, students may experience the visual arts through hands-on learning, slide lectures, or small group activities. Personal computer required. Students must attend one outside of class Art Department event during the semester.

ART 118 CERAMICS I (3) This general survey course of pottery making includes studio hand-building and wheel throwing techniques, decoration, glazing and firing of artistic works. Lectures, demonstrations, critiques, and discussions of ceramicists, periods, and styles provide cultural and artistic relationships to the current medium, techniques, and related overviews. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 122 SCULPTURE I (3) Three-dimensional art production in this course focuses on sculptural processes (assemblages, carving, modeling and the like) to be realized in and/or outside of the traditional studio space. Art creation centers on both traditional and conceptual imagery and themes. The course includes lectures, demonstrations, critiques, applicable field experiences, discussions of sculptors, periods, styles, and a field trip. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 125 DESIGN FUNDAMENTALS I (3) This studio class pursues the relationship of the visual and organizational components in the study and creation of two- and three-dimensional art. Class includes visually supported lectures, discussions, studio work, critiques, and related studies. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 154 INTRODUCTION TO GRAPHIC DESIGN (3) This is an introductory studio level course exploring fundamental graphic design concepts. Basic design principles and the invention of casual and spatial form within contexts relevant to the design of communication and products will be introduced. Students will gain a working knowledge of the graphic design process through skill building techniques and software applications. Project assignments will coincide with lecture materials, and will enable students to develop critical thinking and visual problem solving skills. Students will acquire a basic skill set for developing graphic design elements. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 156 DRAWING: TECHNIQUES AND TRADITIONS (3) An introduction to the fundamentals of drawing with an emphasis on representational drawing skills, perception and traditional drawing media. Students are exposed to the historical aspects of the discipline of drawing and to a variety of traditional techniques and processes. Learning involves demonstrations, critiques, and discussions of artists, periods, and styles. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 161 PLEIN AIR PAINTING (3) "Plein Air" is a French term for painting outside. It was a term that came from the Impressionists as they picked up their easels and moved out into the landscape seeking to capture the illusion and feeling of light. This is an introductory painting course where students learn how to capture the modern landscape. Students will interpret a particular scene and make thoughtful and informed decisions on composition, color, values and edges. Topics will include atmospheric and linear perspective, composition, and scale and color theory. Instruction includes demonstrations, individual instruction, critiques and class discussion. A lab fee is required.

ART 162 PAINTING: TECHNIQUES AND TRADITIONS (3) This course introduces students to traditional painting practices and processes through projects that cover the basic elements of form, color, and technique. Students are exposed to the history of painting and the range of possibilities offered by traditional approaches. Emphasis is on creating illusionary space. While oil painting is the primary medium used, students will explore water based paints and collage techniques. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 166 PHOTOGRAPHY (3) This course is an introduction to photographic image making, the various methods of output, and basic theory about the cultural significance of photography. Primary emphasis is given to digital photography; students are required to have a digital camera with manual settings. Phone cameras are not permitted. Assignments, lectures, readings, and excursions progressively build on each other to provide students with a comprehensive overview of both the history of the medium and its contemporary practice. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 203 SURVEY OF ART HISTORY I (3) This course surveys Western and non-Western art and architecture, focusing on works of art as expressions of the cultures which produced them. Survey of Art History I focuses on the art of prehistory through the early Renaissance. Survey of Art History II focuses on the art of the early Renaissance up to the beginning of the Modern Age. Courses include slide lectures, discussions, and projects. Students must attend one outside of class Art Department event during the semester.

ART 204W SURVEY OF ART HISTORY II [Writing Enriched] (3) *Corequisite or prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course surveys Western and non-Western art and architecture and focus on works of art as expressions of the cultures which produced them. Survey of Art History I focuses on the art of prehistory through the early Renaissance. Survey of Art History II focuses on the art of the early Renaissance up to the beginning of the Modern Age. Courses include slide lectures, discussions, and projects. Students must attend one outside of class Art Department event during the semester.

ART 205 20TH CENTURY ART AND CONTEMPORARY ISSUES (3) The triumph of the Avant-Garde is studied in the painting, sculpture, photography, architecture, and mixed media works of the twentieth century. Students must attend one outside of class Art Department event during the semester.

ART 214 ART FOR ELEMENTARY SCHOOL TEACHERS (3) In this course students will learn the value of creative thinking as it relates to P-5 curriculum and methods for integrating visual art within elementary classrooms. Students will explore where creative arts ideas originate, learn to engage P-5 learners in creative visual art production and begin to construct meaningful experiences for teaching art across the curriculum. Topics include: theory, curriculum design, lesson planning, art methods and process, assessment and classroom safety. Offered in alternate years. Consult with an advisor for scheduling. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 215 ART FOR SECONDARY SCHOOL TEACHERS (3) In this course students will learn to utilize methods and materials appropriate to the teaching of art in the middle and secondary school classroom. Students will explore where creative arts ideas originate, learn to engage middle and secondary school learners in creative visual art production and begin to construct meaningful experiences for teaching art across the curriculum. Topics include: theory, curriculum design, lesson planning, art methods and process, assessment and classroom safety. Offered in alternate years. Consult with an advisor for scheduling. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 218 CERAMICS II (3) *Prerequisite: ART 118.* This general survey course of pottery making includes studio assignments in hand building, use of the potter's wheel, glaze formulation, elements of design and decoration, and firing of products. Lectures, demonstrations, critiques, and discussions of ceramicists, periods, and styles provide learning experiences. Second-semester work involves further studies of media, technique, and related overviews. Lab fee required. Stu-

dents must attend one outside of class Art Department event during the semester.

ART 222 3-D FORMS AND SPACE II (3) *Prerequisite: ART 122.* In this course students continue their study of sculptural processes introduced in ART 122, with a focus in sculptural fabrication methods and armature building. Woodworking, welding, and soft sculpture techniques are explored in the development of sculptural fabrication skills. Additional interpretations and applications of both traditional and conceptual imagery, themes, media, and techniques are explored and developed. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 225 DESIGN FUNDAMENTALS II (3) *Prerequisite: ART 125.* This studio class expands upon the topics introduced in ART 125, including more conceptual approaches to art content and design. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 245 WEB DESIGN (3) *Prerequisite: ART 154 or 166.* This course provides experience in basic web design and development principles. The course will focus on the theory and practice of using computer-driven software programs in the creation of effective multi-page interface design. Students will explore web design concepts, including project planning, layout, usability, Accessibility, information design, site structure, site management, and graphic design in context of the web. Students will produce and publish basic websites. Offered in alternate years. Consult with an advisor for scheduling. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 256 DRAWING: CONCEPTS AND INNOVATIONS (3) *Prerequisites: ART 156.* This course provides an exploration of how traditional drawing evolves into new visual processes and concepts through continued refinement of perceptual, analytical and imagined interpretations. Printmaking processes and mixed media explorations will be introduced as a means to further develop visual expression. Students must attend one outside of class Art Department event during the semester. A lab fee is required.

ART 262 PAINTING: ILLUSION AND BEYOND (3) *Prerequisites: ART 125, 156, 162 and 225.* An exploration of how traditional painting evolves into new visual processes and concepts through continued refinement of perceptual, analytical and imagined interpretations. Projects introduce the purposes and effects of color organization, color perception, and color theory. Emotive, symbolic, descriptive, and structural uses of color are explored as are abstract and non-objective modes of representation. Oil painting is the primary medium used. Studio fee required. A lab fee is required.

ART 266 DARKROOM PHOTOGRAPHY (3) This course provides an exploration of black-and-white printing techniques and the use of light as a means of creative control. Students learn darkroom techniques, the zone system, studio lighting, and the effects of different papers and films through lectures, demonstrations, assignments and laboratory practice. Students will learn and reflect on current artists using the medium. The history and chemical development of the medium will also be covered. Lab fee covers paper, film, and Access to 35 mm film cameras. Students must attend one outside of class Art Department event during the semester. A lab fee is required.

ART 267 PHOTOJOURNALISM (3) *Prerequisite: ART 166.* This introduction to the principles and practices of journalistic photography includes a study of the history of newspaper and magazine photography. Major emphasis will be placed on the techniques of taking, developing, and printing photographs for newspapers and magazines. Students may serve as staff photographers for the Critograph, Argonaut, and/or other campus publications. Students must own their own camera. Offered in alternate years. Consult with an advisor for scheduling. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 274 GRAPHICS II: METHODS AND PRACTICE (3) *Prerequisites: ART 154.* This intermediate level course provides students with a survey of graphic design from concept through production. The emphasis on visual problem solving and focus on the theory of design methods will help students further refine visual thinking and integrate basic studies through applied problems. Through experimentation, design problems are defined and organized, and students will manipulate imagery, typography, and message to arrive at successful design solutions. Students will gain an awareness of potential solutions and will make informed design decisions. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 275 INTRODUCTION TO ANIMATION (3) *Prerequisite: ART 122 or 156.* In this introductory course, students are taught the fundamentals of animation. Through lectures, instruction, demonstration, videos, class participation, in-class coursework, and take-home projects students will learn to create several short animations on a variety of different software programs on the Mac platform. Offered in alternate years. Consult with an advisor for scheduling. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 285 TYPE AND VISUAL COMMUNICATION (3) *Prerequisite: ART 154.* This course involves the use of typography to create meaning. Students will experiment with typographic composition, contrast, text, and value in combination with language. Students will learn the technical aspects of typography and will be exposed to historical developments in typography. An intensive introduction to the fundamentals of type from individual letterforms to large bodies of textual information will be introduced and evaluated as they relate to visual communications. Students will learn the principles of typography and utilize them as vehicles for visual communication. Offered in alternate years. Consult with an advisor for scheduling. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 303 ART AND HUMOR (3) This course focuses on humor in visual arts practice and history by analyzing the many categories of funny: satire, irony, slapstick, abjection, deadpan, and plays with language (puns, double entendre). What happens in the realm of the visual, when there isn't the presence of a performing body to deliver the joke? Insightful and incendiary critiques have often been delivered through the complex strategies of humor, and we will consider both historical and recent examples. Humor and transgression often keep close company and what we repress often erupts through the societal bounds of taste and decorum.

ART 304 FEMINIST ART AND VISUAL CULTURE (3) This interdisciplinary course approaches the topic of gender, race, and art from cultural, historical, and scientific perspectives. It will also address ways in which feminist theory concerning gender has affected the visual arts since the early 20th century, with an emphasis on second- and third-wave feminist thought since World War II. Students will explore influences upon the ways Western culture has defined art and artists in gendered terms, consider how gender is relevant to the creation and study of arts and culture, and the socio-cultural factors influencing gender and sexuality in the arts, and be encouraged to adopt a critical perspective when approaching works.

ART 313 ADVANCED DIGITAL PHOTOGRAPHY (3) *Prerequisite: ART 166.* Students will expand their photographic competency while learning techniques to improve their work and build a greater understanding of advanced functions of the digital camera while building their aesthetic vision. The course stresses the development of project and client based works. Major emphasis is placed on the techniques of workflow including the taking, editing, and printing photographs for newspapers, magazines, websites and clients. Students must have Access to their own DSLR or camera with manual settings. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 316 INTRODUCTION TO PRINTMAKING (3) *Prerequisites: ART 156, 161, or 162.* This course introduces the fundamentals of intaglio and

relief printmaking with techniques to include etching, drypoint, aquatint, monotype, linocut and woodcut. Learning involves lectures, demonstrations and hands-on studio experiences. Offered in alternate years only, see advisor for scheduling. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 322 ADVANCED 3-D FORMS AND SPACE (3) *Prerequisites: ART 122 and 222.* In this course students will learn how to use 3d modeling to render and visualize 3 dimensional designs and sculptures. Further exploration of computer aided design and its applications to sculptural processes may also include 3d printing, and other rapid prototyping methods, as well as vector based graphic works. Personal computer required. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 329 ART OF CLASSICAL ANTIQUITY (3) This course examines the classical foundations of western art and architecture, beginning with the earliest work in Greece and ending with the collapse of the Roman world order. Offered in alternate years. Consult with an advisor for scheduling. Students must attend one outside of class Art Department event during the semester.

ART 333 RENAISSANCE ART (3) This course follows the development of the Renaissance in the fifteenth and sixteenth centuries in northern and southern Europe from the Medieval era through the High Renaissance. Offered in alternate years. Consult with an advisor for scheduling. Students must attend one outside of class Art Department event during the semester.

ART 335 TOWARD A MODERN WORLD (3) This course examines the movements of the seventeenth, eighteenth, and nineteenth centuries from the reactions of the Baroque to the battles between the Academy and Avant-Garde. Slides serve as a primary teaching aid along with the text(s). Offered in alternate years. Consult with an advisor for scheduling. Students must attend one outside of class Art Department event during the semester.

ART 339 HISTORY OF WESTERN ARCHITECTURE (3) This course explores the development of architecture in Western European culture from the Paleolithic Era to the end of the twentieth century. Offered in alternate years. Consult with an advisor for scheduling. Students must attend one outside of class Art Department event during the semester.

ART 356 ADVANCED STUDIO STUDIES: DRAWING (3) *Prerequisites: ART 156 and 256 or 357.* This course provides advanced level study in drawing that offers opportunities for advanced ideation, visual perception, and the organization of experience into compositions. Primary emphasis is on developing visual expression, skill in using various materials, and growth of critical evaluative abilities through group discussions and critiques. Students are expected to carry out sustained involvement in specific projects focused on process and content. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 357 FIGURE DRAWING (3) *Prerequisites: ART 156, 256.* This course involves drawing from a model and employing various media and ranges of interpretation of the figure in art from quick studies to finished portraits and figure groupings. Studio fee required. Offered in alternate years. Consult with advisor for scheduling. A lab fee is required.

ART 362 ADVANCED STUDIO STUDIES: PAINTING (3) *Prerequisites: ART 125, 156, 225, and 262.* This course provides advanced level study in two-dimensional media that offers opportunities for advanced ideation, visual perception, and the organization of experience into compositions. Primary emphasis is on developing visual expression, skill in using various materials, and growth of critical evaluative abilities through group discussions and critiques. Students are expected to carry out sustained involvement in specific projects focused on process and content. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 366 ALTERNATIVE PROCESS PHOTOGRAPHY (3) *Prerequisite: ART 166.* This course provided advanced level study in the use of the photo image as part of a broad vocabulary of image-making processes. Students explore cyanotype, van dyke prints, salt printing, tintype, collage, reproduction, and transfer techniques, and are given a working knowledge of the photographic history and medium. Students will also examine historical and contemporary precedents that relate to their own work so that their individual explorations can be brought into dialogue with other perspectives. Students are required to have their own DSLR cameras. Personal computer required. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 374 GRAPHICS III: INNOVATION AND ANALYSIS (3) *Pre- or corequisite: ART 154.* This advanced level course will focus on graphic design problem solving and promote analysis of solutions. Students will concentrate on the relationship between message and media, and the exploration of both digital and traditional production techniques. Studio projects will be student driven and include problems integrating typographic, photographic, and historical concepts in graphic communication. Students will be expected to explore, experiment, and make decisions as they relate to standards of professional practice. Personal computer required. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

ART 397 INDEPENDENT STUDY IN ART (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

ART 398 SPECIAL TOPICS IN ART (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

ART 399 INTERNSHIP IN ART (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator; and supervising faculty prior to registration.* Internships are offered in cooperation with a sponsoring individual or agency to provide students with ongoing educational opportunities in art beyond the classroom that are appropriately related to their area of emphasis. (See "Internships.")

ART 402 SENIOR STUDIO SEMINAR: CONTEXT, CRITICISM, AND CRAFT (3) *Prerequisites: ART 122, 125, 156, 162, 166, 225, 256 and 6 hours of other ART courses 200-level and above. One 300 level studio course must be completed before attempting the capstone.* The senior seminar experience in art prepares students for active, life-long engagement in the studio arts. Students will pursue independent research and publication through a semester-long project. Research will result in a public presentation the form of which will be decided in conjunction with the instructor. Projects may include an exhibition or installation, a written thesis with a public defense, community-based research, web-based publication, and/or other forms of public dissemination. Through both inventive and interpretive participation in visual arts activities, students will demonstrate skills in critical thinking, creative problem-solving, and intra/inter personal communica-

tion. Lab fee required. Students must attend one outside of class Art Department event during the semester.

ART 407 PORTFOLIO PREPARATION (3) *Pre- or corequisite: ART 374.* This course focuses on student development and building of a professional portfolio. Students will explore self-promotion and prepare for a career or further study in graphic design. Personal computer required. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 408 GRAPHIC DESIGN SEMINAR (3) *Pre- or corequisite: ART 274 or 374.* This advanced studio course focuses on independent and collaborative design problems. This course gives students the freedom and responsibility to pursue a series of original works required for degree completion as well as practical project work and research, to reflect their personal direction. It also prepares students for the creation of a professional portfolio and for the capstone experience. Personal computer required. Students must attend one outside of class Art Department event during the semester. A lab fee is required.

ART 409W ART SENIOR CAPSTONE [writing Enriched] (3) *Prerequisite: C- or better grade in BIOL 113-114, CHEM 111, and ENGL 123W, HONR 103W or equivalent.* This course is the culminating course for all art majors and focuses on independent student development and growth. Students will explore business and marketing in art as well as prepare for a career or further study in the arts. Personal computer required. Students must attend one outside of class Art Department event during the semester. A lab fee is required

ART 480 DESIGN PRACTICUM (3) *Prerequisite: a background of working in the discipline and consent of instructor.* This course provides students with professional practice in graphic design. Practical work experience in the course includes client work approved by art faculty. The course functions much like a professional design agency where students maintain clients, and learn about account management, and production. Students will gain an understanding of professionalism and business knowledge while providing a service that would strengthen their portfolio. A lab fee is required.

ATHLETIC TRAINING COURSES (A T)

A T 100 INTRODUCTION TO ATHLETIC TRAINING (3) This course is an introductory course to the fundamentals of athletic training. This course introduces concepts and practical skills of athletic training, including the prevention, recognition, evaluation, and management of orthopedic injuries and general medical conditions. Course fee required.

A T 175 BASIC ATHLETIC TRAINING SKILLS (3) This course provides students with the skills and knowledge needed to maximize the benefit of athletic training clinical education. Some of the skills included in this course are taping, wrapping, protective padding fabrication, protective equipment fitting and modality application. Course fee required.

A T 330 ASSESSMENT AND TREATMENT OF GENERAL MEDICAL CONDITIONS (3) *Prerequisite: EXPH 325.* This course is designed to provide students with the knowledge and skill necessary to recognize and treat a variety of systemic pathologies.

A T 350 THERAPEUTIC INTERVENTIONS (3) *Prerequisites: AT 100, BIOL 224,225.* Therapeutic exercise and how it affects tissue healing and its role in the treatment of injuries will be examined. Basic components, design, and implementation of rehabilitation programs will be discussed and practiced. Therapeutic modalities will be introduced.

BACHELOR OF PROFESSIONAL STUDIES COURSES (BPS)

BPS 301 FUNDRAISING, GRANT WRITING AND NONPROFIT FINANCE (3) This course prepares students to understand the basics of fundraising, grant writing and finance as they relate to nonprofit organizations. Students will examine and analyze strategies of how nonprofit organizations utilize fundraising, grant writing to accomplish organizational goals. In addition, students will examine the role that nonprofit financial management is part of a nonprofit organization's strategic plan and how fundraising and grant writing contribute to the nonprofit organization's financial plan. This course can be taken only by Access students obtaining a B.A. in Business Studies, BPS in Community and Nonprofit Leadership, or a BPS in Diversity Strategies.

BPS 302 NONPROFIT LEADERSHIP (3) This course prepares students to understand the basics of leadership theory as it relates to nonprofit organizations. Students will examine and analyze leadership theories and how the role of leadership influences organizational goals and functions. In addition, students will conduct a self-assessment in order to identify personal strengths and areas of leadership growth. This course can be taken only by Access students obtaining a B.A. in Business Studies, BPS in Community and Nonprofit Leadership, or a BPS in Diversity Strategies.

BPS 303 LEADERSHIP IN THE COMMUNITY (3) The course provides adult students with an opportunity to examine community or nonprofit leadership through the lens of leadership, problem solving, and decision making. This course can be taken only by Access students obtaining a B.A. in Business Studies, BPS in Community and Nonprofit Leadership, or a BPS in Diversity Strategies.

BPS 321 EXPERIENTIAL LEARNING (3) This course can be taken only by Access students obtaining a B.A. in Business Studies, BPS in Community and Nonprofit Leadership, or a BPS in Diversity Strategies. The course provides adult students with an opportunity to examine community or nonprofit leadership through the lens of leadership, problem solving, and decision making.

BPS 400 CAPSTONE IN THE MAJOR (3) *Prerequisite: Senior standing.* This course can be taken only by Access students obtaining a BPS in Community and Nonprofit Leadership, or a BPS in Diversity Strategies. The course provides adult students with an opportunity to demonstrate knowledge mastery and creative thinking through focused research around an issue related to the major.

BIOLOGY COURSES (BIOL)

BIOL 101 BIOLOGICAL INQUIRY (4) Three hours lecture plus a one hour practicum. Students will explore a topic or set of related topics in biology as an impetus to learning about scientific discovery. The primary emphases include scientific ways of knowing, the distinction between correlation and causation, scientific reasoning, and interpreting data collected either personally or from the scientific literature.

BIOL 113 EVOLUTION, ECOLOGY, AND ORGANISMS (4) Three hours of lecture and three hours of laboratory. The emphasis of this course is on the fundamentals of the relationships among organisms and their environment. This course serves primarily as the first part of a two-semester introduction in biology. A lab fee is required.

BIOL 114 CELLS: GENETIC AND MOLECULAR PERSPECTIVES (4) Three hours of lecture and three hours of laboratory. Understanding of organismal structure and function is based on knowledge of the underlying cellular and molecular structure and function. These in turn are controlled by the genetic mechanisms that determine cellular structure and behavior. The relationships among cells, molecules, and their genetic controls are the focus of this course. This course serves primarily as the second part of a two semester introduction in biology. A lab fee is required.

BIOL 205W PLANT BIOLOGY [Writing Enriched] (4) *Prerequisites: BIOL 113-114 or ENVS 111-112, and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* Three hours lecture and three hours laboratory. This course examines the evolution, structure, function, physiology, basic ecology, and life histories of organisms traditionally studied in the context of botany, including photosynthetic bacteria, protists, plants, and fungi. Labs complement lecture content, providing opportunities to gain skills in microscopy, morphology, ecology, and classification. A lab fee is required.

BIOL 210 ANIMAL BIOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. Introduction to the structure, function, and ecology of the major groups of protozoans and animals within the context of a modern phylogenetic perspective. Special emphasis is placed on the modification of structure and function by natural selection within different animal groups as adaptations to specific physiological and ecological constraints. A lab fee is required.

BIOL 220W CELLULAR DIVERSITY [Writing Enriched] (4) *Prerequisites: C- or better grade in BIOL 113-114, CHEM 111, and ENGL 123W, HONR 103W or equivalent.* Three hours lecture and three hours lab. This course introduces the student to the connectivity between all cellular forms of life, with its primary focus being the kingdoms of fungi and protists and their evolution from and parallel to prokaryotic organisms (bacteria and archaea). Specific topics include systematics and evolution, endosymbiosis, evolution from single to multi-celled life, and molecular aspects of communication and cell structure. Students will integrate a cellular view into their understanding of biology. Laboratories focus on microscopy, histology, and basic culture, molecular and biochemical techniques for cells. A lab fee is required.

BIOL 224 HUMAN ANATOMY AND PHYSIOLOGY I (4) Three hours lecture and three hours lab. This course explores the fundamental structure and function of the human body, beginning at the cellular and molecular level of organization and progressing through integumentary, skeletal, nervous, and endocrine systems. A lab fee is required.

BIOL 225 HUMAN ANATOMY AND PHYSIOLOGY II (4) *Prerequisite: BIOL 224.* Three hours lecture, and three hours lab. This course explores fundamental structure and function of muscular, cardiovascular, pulmonary, digestive, renal, and reproductive systems in human beings. Emphasis is placed on inter-relatedness of organ systems and applications to allied health professions. A lab fee is required.

BIOL 227 FOUNDATIONS OF HEALTH MICROBIOLOGY (3) *Prerequisite: CHEM 127.* Microbes are studied from the standpoint of classification, morphology, metabolism, and interrelationships with humans and other organisms. This includes brief introductions to pathogenesis and immunology. This course is intended for the nursing major. Credit cannot be applied to majors or minors for biology, biomedical science, environmental science and sustainability, exercise physiology or health promotion. This course does not meet requirements for graduate programs in health sciences (e.g. PA medicine).

BIOL 233 TROPICAL BIOLOGY (3) *Prerequisites: BIOL 113-114 or ENVS 111-112.* This course examines extremely diverse ecosystems of the tropical forests which provide excellent opportunities to study several basic concepts of biological and environmental science. Students also study the unique fauna and flora of the tropical forest and learn how and why this ecosystem is threatened.

BIOL 238 INTRODUCTION TO RESEARCH (1-3) *Prerequisite: Consent of supervising instructor.* This course provides the beginning student the opportunity to conduct lab, field, or library research under the supervision of a faculty member. Credit is dependent upon the scope of the work.

BIOL 242 RESEARCH METHODS IN BIOLOGY (3) *Prerequisites: BIOL 113-114.* An introduction to research methods in the biological sciences. Emphasis will be placed on critical thinking, scientific literacy, experimental design, and data analysis. Topics covered will include the logical and philosophical foundations of the scientific method, how biological research is conducted and disseminated, and developing a skillset of data analysis techniques that can be used to effectively evaluate research questions and hypotheses in biological sciences.

BIOL 250 BIOINFORMATICS (3) *Prerequisite: BIOL 114.* Bioinformatics is a new field that uses computational tools to manage and analyze data generated from modern biology. It makes inferences, connections, and predictions from large amounts of molecular data. In this course, students will be taught how to Access data archives of genomes and proteins, the available tools for analysis and comparison, and the types of questions that these databases and tools can answer. The following areas of bioinformatics will be discussed: DNA and protein databases; sequence alignment; probability and the significance of results; phylogenetics; functional genomics, DNA sequencing and assembly; impact to society and ethical considerations. This course is recommended for students interested in medical, pharmacy, veterinary or graduate school. Upon completion of this course, students will be able to utilize numerous bioinformatics tools to analyze biological data.

BIOL 256 GENETICS (4) *Prerequisites: BIOL 114 and CHEM 111.* Three hours lecture and three hours laboratory. Basic concepts and principles of prokaryotic and eukaryotic genetics are discussed, including Mendelian inheritance, polygenic inheritance, linkage and mapping chromosome aberrations, population genetics, DNA structure and replication, molecular genetic analysis, genomics and systems biology, and the molecular basis of disease. Lab exercises may utilize bacteria, plants, and animals as model systems. A lab fee is required.

BIOL 305 PLANT ECOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112, and MATH 103 or STAT 222.* Three hours lecture and three hours laboratory. This course focuses on ecological constraints that plants experience by virtue of their predominantly sessile lifestyle. Populations dynamics, competition, plant-animal interactions, community structure, function, succession, and the influence of abiotic factors will be considered. Lab exercises emphasize problem-solving approaches to a series of field investigations. A lab fee is required.

BIOL 307W BIOMEDICAL SCIENCE SEMINAR [Writing Enriched] (1) *Prerequisite: Junior or senior standing, and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* One-hour lecture. Students meet for presentations (prepared by the students) on various aspects of careers and trends in the health-related professions. Topics may include ethics in medicine, current research problems in the health fields, health insurance options, job outlook predictions for various medical specialties, average GPA and MCAT scores for last year's entering class, demonstrations of interesting websites, and standardized test and interview preparation. Experimental design is also addressed. The grade is based on attendance, presentations, several short essays, and a final paper on which the student can base the essay required for professional school application.

BIOL 309 ENVIRONMENTAL ENTOMOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112; BIOL 210 recommended.* Three hours lecture and three hours laboratory. An introduction to insect structure, function, adaptation, and ecology, with an emphasis on insect interactions with their natural environments and with humans. Students will be trained in insect, sampling, curation, and identification during labs, lectures, and field trips. The utility of insects in assessing the health of terrestrial and aquatic ecosystems (biomonitoring) will be a key component of the course. A lab fee is required.

- BIOL 310 ORNITHOLOGY (4)** *Prerequisites: BIOL 113-114 or ENVS 111-112; BIOL 210 recommended.* Three hours lecture and three hours laboratory. Introduction to avian biology with an emphasis on the evolution, classification, physiology, behavior, ecology, natural history, and conservation of birds. Laboratory focuses on anatomical adaptations and biodiversity, as well as on field identification of birds of the Mid-Atlantic States with field trips to local and regional areas. A lab fee is required.
- BIOL 313 MARINE BIOLOGY (4)** *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. This introduction to the marine environment emphasizes the influence of oceanographic, evolutionary, and ecological principles on marine organisms and ecosystems. Discussion of the diversity of marine life focuses on the constraints of different marine ecosystems. Students gain experience in field identification of marine organisms during the laboratory. The laboratory is conducted at selected sites on the ocean and in the estuary. A small additional cost will be incurred for a field trip. A lab fee is required.
- BIOL 314 BIOLOGY OF WEST INDIAN CORAL REEF ORGANISMS (3) (Winter Term)** *Prerequisites: BIOL 113 or ENVS 111.* This course covers the organisms inhabiting the coral reefs of the West Indies and will be taught on San Salvador Island in the Bahamas. Field work is intensive, and skin diving and optional scuba techniques are employed. Limited collections are made, and a paper on a topic of special interest is required. An additional fee will be charged to cover expenses.
- BIOL 321W GENERAL ECOLOGY [Writing Enriched] (4)** *Prerequisites: BIOL 113-114 or ENVS 111-112, grade of C- or higher in ENGL 123W, HONR 103W or equivalent; and MATH 103 or STAT 222; junior or senior standing.* Three hours lecture and three hours laboratory. This course is a survey of general ecological principles from the evolutionary perspective, incorporating multiple levels of analysis (e.g. population, community, etc.). Primary emphasis is placed on framing ecological theory in perspective with field models of ecological principles from historical and current research. A lab fee is required.
- BIOL 322 FORENSIC SCIENCE (4)** *Prerequisites: BIOL 114, CHEM 112.* This course introduces the student to the forensic science profession. Course topics include crime scene investigation, techniques used for the identification and analysis of body fluids, hair, glass, fibers, latent fingerprints, firearms, and narcotics. Laboratory experiments emphasize the collection/preservation of evidence, serology, wet chemical techniques, microscopy, and the use of spectroscopic instrumentation. A lab fee is required.
- BIOL 327 CELL COMMUNICATION (3)** *Prerequisites: BIOL 113-114, CHEM 111-112.* Cell-cell communication plays a critical role during organismal development in addition to regulating its survival and homeostasis. Aberrations in cellular signaling have been demonstrated to contribute to many human diseases. Therefore, it is critical to understand these processes and how they relate to normal biology. The primary focus of this course is cell signaling mechanisms. The topics will broadly cover ligands, receptors, signal transduction, regulation, cellular responses, cell-cell interactions, and information networks. Examples of signaling will be drawn from both developmental and disease-based examples in multiple eukaryotic systems to illustrate both the mechanisms and roles of these key processes. Students will evaluate and present scientific evidence from primary literature related to various cell signaling processes.
- BIOL 332 VERTEBRATE ANATOMY (4)** *Prerequisites: BIOL 113-114; BIOL 210 recommended.* Three hours lecture and three hours laboratory. This course provides a comparative study of the development, structure, and relationships of different organ systems in various vertebrate groups. Recommended for pre-medical, pre-dental, and medical technology students. A lab fee is required.
- BIOL 333 VERTEBRATE PHYSIOLOGY (4)** *Prerequisites: BIOL 113-114, CHEM 111-112; BIOL 210 recommended.* Three hours lecture and three hours laboratory. This course is a study of the cellular and molecular bases of organ system function in vertebrates, primarily humans. Emphasis is placed on nervous and endocrine control systems and the coordination of body functions. Clinical examples are frequently used. A lab fee is required.
- BIOL 345 ANIMAL BEHAVIOR (4)** *Prerequisites: BIOL 113-114 or ENVS 111-112, and MATH 103 or STAT 222.* Three hours lecture and three hours laboratory. This course includes a review of concepts of animal behavior and the methods employed to study behavior including an analysis of mechanistic and adaptive aspects of behavior in a variety of animal taxa. Emphasis is placed on analysis of current primary literature and development of critical tests of behavior. A lab fee is required.
- BIOL 354 TOXICOLOGY (4)** *Prerequisites: BIOL 114, CHEM 111; recommended BIOL 224 or 333.* Toxicology is the study of chemical agents and their deleterious effects on organisms and their environments. It applies a knowledge of the fields of biology and chemistry to understanding the functions and mechanisms of toxic agents to these ecological and biochemical systems. This course builds a basic knowledge of toxicology principles and toxicant effects on vertebrate organ systems and introduces students to laboratory work in this area. A lab fee is required.
- BIOL 360 MOLECULAR CELL BIOLOGY (4)** *Prerequisites: BIOL 113-114; CHEM 111-112, 221; BIOL 220W recommended.* Three hours lecture and three hours laboratory. This course introduces the student to the complex events occurring in the nucleus of the cell, resulting in cell division and the continuation of species. It also examines the molecular processes of cell differentiation, cell signaling, cancer, and events that cause DNA mutations. A lab fee is required.
- BIOL 387 DOMESTIC STUDY AWAY (3)** Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.
- BIOL 397 INDEPENDENT STUDY IN BIOLOGY (1-3)** *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.
- BIOL 398 SPECIAL TOPICS IN BIOLOGY (1-4) [credit depends on topic]** *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.
- BIOL 399 INTERNSHIP IN BIOLOGY (1-12)** *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, and supervising faculty prior to registration.* This course is offered to qualified students allowing them to gain personal and practical experience in various areas of the biological sciences. Internships include but are not limited to research projects with professionals, laboratory analysis and management, conservation management, statewide or regional conservation, fisheries, wildlife or botanical projects, and a variety of other possible on-site experiences. (See "Internships.")
- BIOL 405 EVOLUTION (3)** *Prerequisites: BIOL 113-114 or ENVS 111-112; CHEM 111-112; BIOL 256 recommended.* Evolutionary biology addresses fundamental questions whose answers influence all other levels of biological understanding, from molecular and cellular biology to ecological processes. This course will provide a survey of the basic concepts of evolutionary biology, address empirical methods in evolutionary biology, and examine the importance of an evolutionary understanding across other sub-disciplines.

BIOL 420 **CANCER BIOLOGY (3)** *Prerequisites: BIOL 113-114; recommended BIOL 360.* Three hours lecture. This course will address current issues in cancer: the genesis and progression of a tumor, types of tumors, mechanisms of tumorigenicity and effective treatment strategies.

BIOL 424 **MICROBIOLOGY (4)** *Prerequisites: BIOL 113-114, CHEM 111-112 with a C- or better in all; BIOL 220W recommended.* Three hours lecture and three hours laboratory. The ecological, genetic and molecular basis of the microscopic world is studied with an emphasis on the prokaryotes; the bacteria and archaea. Human microbial disease investigation includes virology, mycology (fungi), and bacterial infections as well as drug treatments, and case studies of infection and epidemiology. Labs concentrate on classic microbiological techniques, microscopy, biochemistry and genetics of prokaryotic organisms. A lab fee is required.

BIOL 428 **INDIVIDUAL RESEARCH IN BIOLOGY (1-6)** *Prerequisites: Junior or senior standing; consent of supervising instructor.* This independent opportunity to conduct a field, laboratory, or literary study project culminates in a formal paper and/or presentation as directed by the supervising instructor. Credit is dependent on the nature of the work but may not exceed three credit hours per semester. Specific projects may require students to enroll in at least two semesters.

BIOL 454 **IMMUNOLOGY (4)** *Prerequisites: BIOL 113-114, and CHEM 111.* Three hours lecture and three hours laboratory. A study of the structure and function of the mammalian immune systems, principally focused on mouse and human immunology. This course builds basic knowledge about the function of the cellular components of immunity and examines an integrated view of the biochemical and genetic aspects that contribute to immune action in infectious disease and immune disorders. A lab fee is required.

BIOL 480W **CASE STUDIES IN BIOLOGY [Writing Enriched] (3)** *Prerequisites: C- or higher in ENGL 123W, HONR 103W or equivalent; senior standing.* Three hours lecture. This course is intended as a capstone course and is designed to allow students to study specific topics in biology in depth. It utilizes case studies in biology and draws upon previous coursework in the biology major. Emphasis is placed on critical thinking and problem-solving skills.

BIOL 490 **BIOLOGY SEMINAR (1)** *Prerequisite: Senior standing.* Students in this course will receive training on the practicalities of using their majors to obtain graduate school or job placement. The focus of the class is on career-readiness activities such as resume writing, interview skills, cover letters, and personal statements. Students should leave this course with the tools to successfully apply for employment or graduate schools.

BONNER COMMUNITY COURSES (BONN)

BONN 101 **BONNER COMMUNITY EXPLORATION 1 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 101 prepares Bonner Leaders for their work within the community as well as provides opportunities for reflection as they work in the community to solve real-world problems. Students explore personal identity as it relates to community work, knowledge of the local and at-large community, engage in active listening and empathetic conversations, and are introduced to public, private, and non-profit sectors.

BONN 102 **BONNER COMMUNITY EXPLORATION 2 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 102 introduces Bonner Leaders to a more comprehensive understanding of civic and community engagement. Students will explore a philosophy and approach for identifying solutions to the issue they are confronting and understanding how they might contribute to solutions. The second capstone workshop builds on the first semester, allowing first-years to revisit their long-term interests for their four years.

BONN 201 **BONNER COMMUNITY EXPERIENCE 1 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 201 prepares Bonner Leaders for service leadership and introduces capacity-building projects. Students explore work styles for effective leadership working across teams, and tools for communication and conflict management. Students plan effective meetings and design collaborative activities for meetings and supervisory relationships and begin to understand the various ways they can engage with community partners.

BONN 202 **BONNER COMMUNITY EXPERIENCE 2 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 202 enables Bonner Leaders to more deeply understand the policies and programs impacting an issue area in which they serve. Students will research, interview community members, and present information on data, policies, and evidence-based solutions to a specific issue. Additionally, students develop a plan for their capstone project proposal.

BONN 301 **BONNER COMMUNITY EXAMPLE 1 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 301 prepares Bonner Leaders for projects at their service sites that help to build the capacity of an organization in expanding their outreach or strengthening the quality and sustainability of their programs and services. These may include volunteer management, training development, brochure design, fundraising, communications and marketing, research, and more. Students may engage in social action campaigns. Students will be equipped with a comprehensive, effective approach to building an organization's capacity. The capstone workshop of this course will prepare students to finalize their own work plans with the involvement of advisors and create a realistic timeline and support.

BONN 302 **BONNER COMMUNITY EXAMPLE 2 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 302 prepares Bonner Leaders for the process of planning and managing projects. Through positions and education that help them appreciate how they are building organizational and community capacity, they can think critically about the impacts of their work and their potential future pathways, including careers. The capstone workshop prepares students to implement their planned project with their community-based service site.

BONN 401 **BONNER COMMUNITY EXCELLENCE 1 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 401 prepares Bonner Leaders as they begin to transition out of leadership roles, passing on learning and information to other student leaders. Students reflect on and articulate the impact of their Bonner experiences and projects to peers, staff and faculty, family, employers, graduate schools, and others. As students focus on finding what's next, this series of classes will support them to successfully articulate their experiences to employers and graduate schools. The capstone workshop supports the creation of a final implementation plan.

BONN 402 **BONNER COMMUNITY EXCELLENCE 2 (1.5)** *Prerequisite: Acceptance to the Bonner Leader Program.* BONN 402 prepares Bonner Leaders to turn their attention toward the future. They have completed capstone projects and reflect on their entire Bonner experience to create and share a Presentation of Learning. This series of classes will support students to reflect on their college learning as a whole and be further prepared to pursue post-graduate goals and succeed. They especially emphasize reflective, integrative, and communication skills. The final capstone workshop (done after projects are completed) helps students write and share their Bonner learning through publications, essays, resumes, and other avenues.

BUSINESS ADMINISTRATION COURSES (BUAD)

BUAD 100 **PERSPECTIVES ON BUSINESS (3)** This course presents basic concepts and problems found in business. Topics such as marketing, organi-

zational forms, management, production, finance, and economics are discussed. The business environment is also emphasized, including the global, social, ethical, political, legal, and regulatory business environment. Leading business executives bring the “real world” to the classroom, and a technological component emphasizing computer presentation software is presented. Team-building skills are strongly emphasized and developed.

BUAD 185 SPREADSHEETS FOR BUSINESS (3) *Prerequisite: BUAD 100, ECON 201, or 202.* This course is designed to give students the essential skills in Microsoft Excel that are needed for professional careers in business and economics. Real-world business cases are given to students to complete using Microsoft Excel. Also explored is Excel’s relationship with other data and statistical packages.

BUAD 205 QUANTITATIVE APPLICATIONS IN BUSINESS (3) This course develops the student’s ability to use quantitative analysis and critical thinking skills to dissect, analyze, and solve common problems associated with managerial issues. Methods include probability, chance, regression and correlation, and graphing amongst others.

BUAD 222 ETHICAL DILEMMAS IN BUSINESS AND LEADERSHIP (3) This course examines moral and ethical dilemmas related to business and leadership, including ethical decision making and core decision making skills in the business environment. Close attention will be paid to contemporary ethical dilemmas faced by business, political and world leaders.

BUAD 241 BUSINESS STATISTICS (3) This course focuses on the development of the theory of inferential statistics with the aim of generating an understanding of the selection, application, and interpretation of statistical methodology necessary for making informed management decisions. Topics include sets and probability, probability distributions, expected value, statistical measures, sampling distributions, estimation, and hypothesis testing. Note: business and economics majors will not meet the statistics requirement by substituting STAT 222 for BUAD 241.

BUAD 243 DATA MINING (3) This hands-on course focuses on the application of current data mining techniques in business and economics. Supervised and unsupervised learning techniques will be discussed, including association rules, decision trees, and classification. These are applicable in marketing (customer profiling), economics (fraud detection), accounting (auditing), information systems (security), and a variety of other contexts.

BUAD 265 LEADERSHIP AND THE CLASSICS (3) This course studies the concepts and techniques of effective leadership. The classics are used as resources to gain insightful knowledge about ways in which concepts and techniques of leadership work in the business environment.

BUAD 316 INTRODUCTION TO ENTREPRENEURSHIP (3) *Prerequisite: BUAD 100 or ECON 201.* This course emphasizes aggressive strategic planning of entrepreneurial projects. The course integrates professional management and entrepreneurial values, concepts, and tools. Students are coached through development of strategic plans for their projects.

BUAD 322 LEGAL ENVIRONMENT OF BUSINESS (3) This course examines legal principles and ethics, the role of law in society, and the legal environment in which business operates.

BUAD 352 PRINCIPLES OF INTERNATIONAL BUSINESS (3) *Prerequisites: ACCT 200, ECON 201-202, and MGMT 260.* An introduction to the study of the theory and practice of the field of international business that focuses on managerial, operational, strategic, and environmental factors. The roles of intercultural communications and cross-cultural awareness in successful global strategies are emphasized. Analysis of the procedures and processes of international business and alternative modes of entry are also stressed.

BUAD 377 STUDY ABROAD (3) *Prerequisite: Permission of instructor.* This course is a study-course experience, normally lasting one week, that takes students outside the United States. The purpose is to deepen students’ understanding of other cultures as they learn how the requirements for operating a successful enterprise differ from those in the United States. This is accomplished through a series of papers completed prior to and following the study-tour experience.

BUAD 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

BUAD 397 INDEPENDENT STUDY IN BUSINESS ADMINISTRATION (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

BUAD 398 SPECIAL TOPICS IN BUSINESS ADMINISTRATION (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

BUAD 399 INTERNSHIP IN BUSINESS (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Internships are offered in cooperation with a faculty sponsor responsible for academic quality who assigns the final grade. Student interns may or may not be paid for their work. (See “Internships.”)

BUAD 441W INTEGRATED APPLICATION OF BUSINESS PRINCIPLES [Writing Enriched] (3) *Prerequisites: ECON 201-202, FIN 317, MGMT 260, 344, MKTG 209, and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course focuses on integrating business theory and practice. Students apply core business concepts (accounting, economics, finance, law, management, marketing, and operations management) to develop a business plan. Students also explore topics associated with the strategic management and control of small- to medium-size business enterprises.

CALL ME MISTER COURSES

CMED 101-102 CALL ME MISTER SEMINAR I, II (1,1) *Prerequisite: Approved undergraduate education major for CMED 101 and CMED 101 for 102.* This sequence of courses examines the origins of the MISTER initiative, teaching as a profession, and a series of topics associated with development of leadership skills in preparation for the teaching profession. This course will focus on the study of the fundamentals of becoming a positive role model, the fundamentals of relationship building, and the factors pertinent to the education of students from diverse backgrounds. (Experiential Experience)

CMED 201-202 CALL ME MISTER SEMINAR III, IV (1,1) *Prerequisites: CMED 102 for 201 and CMED 201 for 202.* This sequence of courses will focus on the study of the fundamentals of becoming a positive role model, the fundamentals of relationship building, the impact of educators on the success of K-12 students,

and the factors pertinent to the education of students from diverse backgrounds. Students will learn about effective servant leadership skills and professionalism, as well as develop their own professional philosophy and beliefs. (Experiential Experience)

CMED 301-302 CALL ME MISTER SEMINAR V, VI (1,1) *Prerequisites: CMED 202 for 301 and CMED 301 for 302.* This sequence of courses will extend on the study of the challenges and factors facing today's teachers, their role and responsibility as an educator, their impact on K-12 students' success through their practice within an educational setting, the role of family and the community impact on K-12 students' success, and the factors pertinent to the education of students from diverse backgrounds. Students will develop their understanding and practice of an effective servant leader and abilities to become an effective role model. (Experiential Experience)

CMED 401-402 CALL ME MISTER SEMINAR VII, VIII (1,1) *Prerequisites: CMED 302 for 401 and CMED 401 for 402.* This sequence of courses will be a culmination of the study of the challenges and factors facing today's teachers, their role and responsibility as an educator, their impact on K-12 students' success through their practice within an educational setting, the role of family and the community impact on K-12 students' success, and the factors pertinent to the education of students from diverse backgrounds. Students will extend their understanding and practice of being an effective servant leader and demonstrating professionalism. (Experiential Experience)

CHEMISTRY COURSES (CHEM)

CHEM 107 CHEMISTRY IN SOCIETY (3) This course examines the impact of chemistry and technology on society through the lens of the devices we use in our everyday lives. Students will examine selected principles of chemistry and how they steer technological, environmental, and socio-economic outcomes. A community service/civic engagement exercise is a required component of the course.

CHEM 111 FUNDAMENTALS OF CHEMISTRY I (4) *Prerequisite or corequisite: MATH 102 or 103.* This course is designed to meet the DELL general education scientific literacy requirement at Lynchburg. In addition, it is the first half of a full year course designed for science majors. Topics including scientific reasoning, measurement, stoichiometry, chemical reactions, atomic theory and chemical bonding will be emphasized. Basic methods of scientific inquiry will be explored in the laboratory portion of this course. The course includes a three-hour lab period weekly. A lab fee is required.

CHEM 112 FUNDAMENTALS OF CHEMISTRY II (4) *Prerequisites or corequisites: CHEM 111, MATH 102 or 103.* Three hours lecture and three hours laboratory. This course is a continuation of CHEM 111 and continues to cover fundamental principles and concepts necessary for a successful understanding of major aspects of chemistry. Major topics for this course include chemical reactions, thermodynamics, kinetics, equilibrium, acid/base chemistry, and electrochemistry. A lab fee is required.

CHEM 127 THE CHEMISTRY OF LIFE (4) This course is designed to meet the DELL general education scientific literacy requirement at Lynchburg and it is also a prerequisite for nursing majors. This course introduces the fundamental principles of general, organic, and biochemistry necessary for understanding the chemistry of life processes. The following topics will be emphasized: measurements, dosage calculations, chemical bonding, organic compounds and biomolecules. Scientific inquiry will be applied in the laboratory portion of this course. The course includes a three-hour weekly lab period. A lab fee is required.

CHEM 206 ENVIRONMENTAL CHEMISTRY (4) *Prerequisite: Satisfactory completion of CHEM 111.* Three hours lecture and three hours laboratory. This course can substitute for CHEM 112 for environmental science majors only. This course focuses on the application of fundamental chemical principles to environmental problems. Laboratory techniques and field collection methods used in modern environmental analysis are introduced to assess aspects of water quality, atmospheric chemical reactions, and soil chemistry. A lab fee is required.

CHEM 215 DESCRIPTIVE INORGANIC CHEMISTRY (3) *Prerequisite: CHEM 112.* This course is designed to introduce the student to the field of inorganic chemistry with a focus on the fundamentals of atomic and molecular structure, the symmetry and geometries of small molecules, bonding theories both in inorganic molecules and in the solid state, redox chemistry, descriptive main group and transition metal chemistry, ligand field theory, molecular magnetism and electronic spectra in transition metal complexes. This course does not contain a lab portion.

CHEM 221 ORGANIC CHEMISTRY I (4) *Prerequisites: A grade of C- or better in both CHEM 111 and 112.* Three hours of lecture and three hours of lab. The fundamentals of organic chemistry are presented with an emphasis on the nomenclature, stereochemistry and reaction mechanisms that functional groups undergo. Specifically, the reactions of alkyl halides, alkenes and alkynes are reviewed. Laboratory techniques used to synthesize, purify, and analyze organic compounds are investigated. Spectroscopic and instrumental methods of analysis are also examined with a focus on IR spectroscopy. A lab fee is required.

CHEM 222 ORGANIC CHEMISTRY II (4) *Prerequisite: CHEM 221 with a grade of C- or better.* Three hours of lecture and three hours of laboratory. The fundamentals of organic chemistry are further explored in this course. The nomenclature, stereochemistry and reaction mechanisms of specific functional groups are expanded upon. Specifically, the reactions of aromatic compounds and carbonyl chemistry are explored. This course emphasizes the multistep synthesis of small organic compounds and an exploration into retrosynthetic analysis. More advanced organic laboratory techniques used to synthesize, purify, and analyze organic compounds are investigated. Spectroscopic and instrumental methods of analysis are examined with emphasis on ¹H and ¹³C NMR and MS. A lab fee is required.

CHEM 238 INTRODUCTION TO RESEARCH (1-3) *Prerequisite: Consent of supervising instructor.* This course provides the beginning student the opportunity to conduct lab, field, or library research under the supervision of a faculty member. Credit is dependent upon the scope of the work.

CHEM 242W RESEARCH METHODOLOGY IN CHEMISTRY [Writing Enriched] (3) *Prerequisites: CHEM 111-112 and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* One-hour lecture and three-hour laboratory. This course introduces the student to chemistry research protocols including experimental design, conducting a literature review, and introductory instrumentation. Students will create and present an independent research proposal based on their review of the chemical literature.

CHEM 320 BIOCHEMISTRY I (4) *Corequisite: CHEM 221.* This course is a study of the structure and function of biological macromolecules, and the chemistry of metabolic processes. Biochemistry is especially recommended for biology majors and pre-health science students. Students planning to take the MCAT exam will benefit from this elective. This course is intended to provide knowledge and skills that contribute to Goal 3 in the University of Lynchburg general education program as outlined in the college catalog. This one semester course introduces the fundamental principles of biochemistry. A laboratory component exists that is designed to complement this study. Learning chemistry in this course will be facilitated by the use of multiple instructional methods, including lectures, group work, POGIL activities, sapling learning, polling, discussion, and writing. (4 credit hours: includes one 3-hr lab weekly). A lab fee is required.

CHEM 321 BIOCHEMISTRY II (3) *Prerequisite: CHEM 320.* Biochemistry is the study of structure and function of biological macromolecules, and the chemistry of metabolic processes. Biochemistry is especially recommended for chemistry, biology, and biomedical science majors as well as pre-health science stu-

dents. Students planning to take the MCAT exam will benefit from this elective. This course shall cover foundational biochemical principles that were not covered in CHEM 320: Biochemistry I. Learning in this course will be facilitated by the use of multiple instructional methods, including lectures, group work, POGIL activities, online learning, polling, discussion, and writing. A lab fee is required.

CHEM 359 ANALYTICAL CHEMISTRY I (4) *Prerequisite: CHEM 112.* Three hours lecture and three hours laboratory. This course focuses on the theory and practice of modern analytical chemistry including volumetric and electrochemical methods, sample collection, preparation, and sample validation. Laboratory work is designed to complement this study. A lab fee is required.

CHEM 360 ANALYTICAL CHEMISTRY II (4) *Prerequisite: CHEM 359.* Three hours lecture and three hours laboratory. This course examines theoretical and experimental aspects of instrumental analysis with an emphasis on modern chromatographic, spectroscopic, and electrochemical methods. A lab fee is required.

CHEM 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

CHEM 397 INDEPENDENT STUDY IN CHEMISTRY (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

CHEM 398 SPECIAL TOPICS IN CHEMISTRY (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

CHEM 399 INTERNSHIP IN CHEMISTRY (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* This internship is offered to provide practical experience in applications of chemical knowledge while under the supervision of a qualified professional. Internship opportunities are limited. Only three hours of this course may be applied toward the chemistry major. (See "Internships.")

CHEM 415 PHYSICAL INORGANIC CHEMISTRY (4) *Prerequisites: CHEM 215, MATH 104.* Three-hour lecture and three-hour lab. A study of spectroscopic, bonding, and structural properties of inorganic compounds. Lecture topics include inorganic nomenclature, symmetry, ligands and complexes, bonding/orbital theory, crystal field theory, electronic spectra, magnetism, kinetics, f-electron compounds, and bioinorganic chemistry. The laboratory portion of the course will cover the synthesis and characterization of inorganic compounds using modern laboratory techniques and will support and enhance selected lecture topics. A lab fee is required.

CHEM 421 PHYSICAL CHEMISTRY I (4) *Prerequisites: CHEM 242W, PHYS 141-142 or 161-162. Strongly recommended: MATH 301.* Three hours lecture and three hours laboratory. This course focuses on theoretical and experimental principles of chemistry that are used to explain and interpret observations made on states of matter. This course focuses on an in-depth understanding of equilibrium thermodynamics and chemical kinetics. Key topics include internal energy, work, enthalpy, entropy, Helmholtz free energy, Gibb's free energy, chemical potential as they relate to the solids, liquids, gasses, and mixtures. Students keep a journal-style laboratory notebook and submit reports consistent with American Chemical Society style guidelines. A lab fee is required.

CHEM 422 PHYSICAL CHEMISTRY II (4) *Prerequisite: CHEM 421.* Three hours lecture and three hours laboratory. This course focuses on the theoretical and experimental principles of chemistry that are used to explain and interpret chemical data. This course will focus on chemical quantum mechanics with a particular emphasis on the Schrodinger equation and the postulates of quantum mechanics. Quantum mechanical models will be developed for the particle-in-a-box, harmonic oscillator, rigid rotor, and hydrogen atom. These models will be studied as they relate to spectroscopic properties of atoms and molecules. In addition, computational methods in chemistry will be investigated. Students keep a journal-style laboratory notebook and submit reports consistent with American Chemical Society style guidelines. A lab fee is required.

CHEM 428 INDIVIDUAL RESEARCH IN CHEMISTRY (1-6) *Prerequisites: Junior or senior standing; consent of supervising instructor.* This independent opportunity to conduct a field, laboratory, or literary study project culminates in a formal paper and/or presentation as directed by the supervising instructor. Credit is dependent on the nature of the work but may not exceed three credit hours per semester.

CHEM 430 FORENSIC CHEMISTRY (4) *Prerequisite: CHEM 359.* Three-hour lecture and three-hour lab. Students will gain insight into the many areas of forensic chemistry, and practice techniques commonly used in private, state and federal forensic laboratories. The lecture portion of the course will highlight proper collection, handling, analysis, and data interpretation of physical evidence from an accident or crime scene. The theory and principles of analytical methods and techniques will be presented. The laboratory portion of the course will present spectroscopic, chromatographic, microscopic, and other techniques used to analyze evidence such as documents, fingerprints, fibers, paint, glass, firearms, drugs, arson, and explosives. A lab fee is required.

CHEM 441 CHEMISTRY SEMINAR (1) *Prerequisite: Senior standing.* Two hours lecture. This capstone course focuses on advanced scientific written and oral communication skills, scientific philosophy, research methodology, and scientific reasoning.

CHEM 461 SENIOR PROJECT I (2) *Prerequisites: Senior standing and completion of CHEM 242W.* Students will conduct an individual research project under the guidance of a faculty member. Students are expected to meet weekly with their peers and faculty to discuss progress. Students will present periodic written and oral reports of their progress and keep accurate records in a research notebook.

CHEM 462 SENIOR PROJECT II (1) *Prerequisites: Senior standing and completion CHEM 461.* Students will continue an individual research project under the guidance of a faculty member. Students are expected to meet weekly with their peers and faculty to discuss progress. Students will present periodic written and oral reports of their progress and keep accurate records in a research notebook. Students will present a final written research report on their project as well as present their findings at the annual Tri-College Chemistry Consortium.

COMMUNICATION COURSES (COMM)

COMM 101 ARGUMENTATION AND ADVOCACY (3) This course in oral argumentation emphasizes student ability to support and refute claims, master linear organization, and deliver arguments confidently and effectively. In creating and delivering arguments across topics and disciplines, students are introduced to

such basics of critical thinking as inductive and deductive reasoning, recognition of fallacies, and argument analysis.

COMM 104 INTRODUCTION TO MEDIA TECHNOLOGY (3) The use of media, and media technology, has become ubiquitous in our society. Easy access to technologies that access, and assist in the production of, audio, video, and graphic content has created both opportunity and challenges. Introduction to Media Technology covers the connection of media technologies to culture through history broadly, and more specifically in our electronic age. Students learn aesthetics of media creation, and gain basic proficiency in camera use, editing visuals and audio, still image manipulation, and motion graphics. Additionally, the spectrum of technologies is covered - professional to consumer products.

COMM 112 INTERPERSONAL COMMUNICATION (3) This course focuses on traditional and contemporary theory and research in interpersonal communication in formal and informal settings. Practical application with attention to communication concepts and behaviors such as self-concept, perception, verbal and non-verbal codes, relational development, maintenance, and termination are included.

COMM 114 SMALL GROUP COMMUNICATION (3) This course focuses on theory and research relevant to the communication process in formal and informal small group settings. It provides practical application through participation in structured and unstructured group simulations, and effective group participation, including group influence, leadership, role behavior, attraction, cohesiveness, interaction networks, decision making, problem solving, and discussion agenda systems.

COMM 171 MEDIA AND CULTURE (3) Mass media play a prominent role in our lives, conveying cultural meaning that impacts us on many levels, from the global to the everyday. This course examines the dynamic relationship between mass media and culture. Students will also explore the history, structure, and regulation of mass media industries.

COMM 180 STAGE AND STUDIO TELEVISION (3) This course introduces the aesthetics, technology, and practices of working in a television studio environment. Critical analysis of directing techniques and directorial problem solving are included. Students will engage in a series of training exercises and larger projects that develop basic skills in all the major duties associated with conducting a studio production. Additionally, they will be introduced to standard audio studio practices.

COMM 201W MEDIA WRITING [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* A study of the principles and practices of writing for print, broadcast, and online media. The emphasis is on acquiring skills in reporting, writing, and the presentation of information.

COMM 202 MULTIMEDIA DESIGN AND STORYTELLING (3) *Prerequisites: COMM 104 and 201W.* This course focuses on multimedia skills specific to the practice of journalism across all media platforms: print, broadcast, and the web. In small news teams, students will produce multimedia stories that will incorporate text, images, audio, video, data, and social media. The content produced will contribute to both their digital portfolios and *The Critograph*.

COMM 206 ADVERTISING AND PRODUCTION DESIGN (3) *Prerequisites: COMM 104 and 201W.* This course focuses student activity on the development of planning, writing, and production techniques for promotional media including commercials and public service announcements for radio and television, as well as other forms of promotional electronic media. Students will analyze professional examples of promotional media, formulate scripts based on desired client messages, and then design and execute productions of their scripts.

COMM 228 PUBLIC PRESENTATION IN A DIGITAL AGE (3) *Prerequisite: COMM 101 or 114.* This course emphasizes the role of technology and digital media in all aspects of preparing, presenting, and interpreting public presentations in face-to-face and online environments. Students create and deliver speeches as they are guided through audience analysis and adaptation, organization, presentational aids, and face-to-face podium delivery as well as online environments including LinkedIn, Instagram, Reddit, Tapebook (Podcasting), Tumblr, Twitter, TikTok and YouTube.

COMM 229 INTRODUCTION TO FILM (3) For over a century, film has played an important role in both American and global popular culture. Films have the power to entertain, frighten, and inspire. Films link creators and audiences in a complex and contested dynamic. This course examines film's circulation of cultural meaning through movie screenings and through the study of film aesthetics, theories, and genres.

COMM 230W PERSUASION [Writing Enriched] (3) *Prerequisites: COMM 101, 112, or 114 and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course examines theory and practice in understanding persuasion as a means of advocacy and social influence. Persuasion theory will be applied to the areas of politics, advertising and public relations, media, and interpersonal and other communication settings.

COMM 232 DEBATE AND FREEDOM OF SPEECH (3) *Prerequisite: COMM 101.* This course examines the substantive structure, strategic bases and freedom of speech issues associated with public forms of debate in podcasts, social media and face-to-face debate. Students examine and participate in political, constitutional and collegiate forms of debate.

COMM 251 INTERCULTURAL COMMUNICATION (3) Students develop the knowledge and intercultural thinking approach necessary for today's global society. Emphasis is on conceptual tools needed to understand culture, communication theory, how culture influences communication, and the process of communication between people from different cultures, including the rules and norms relating to verbal and nonverbal language. Values and communication systems of the United States are compared and contrasted with those of other countries and world religions. Diversity and identity within the United States is explored.

COMM 260 INTRODUCTION TO PUBLIC RELATIONS (3) This course focuses on principles and practice in the major forms of writing used in public relations: news releases; broadcast publicity and public service announcements; planning and publicity for special events; feature stories; in-house publications; and institutional advertising. Learning activities include case studies of public relations problems and projects for University and community groups.

COMM 270 SOCIAL MEDIA COMMUNICATION (3) This course analyzes approaches to social media communication through culture, communication theory, technology, and the strategic uses of social media for social engagement, community building, civic and political participation, managing relationships, and the construction of social identities.

COMM 275 VISUAL RHETORIC (3) *Prerequisite: COMM 101, 112, or 114.* Visual Rhetoric is the study of visual representation, the rhetorical nature of the visual, and the theories that explain how visual images construct meaning. This course emphasizes making the student an informed reader/consumer of visual images and their symbolic content. Students will use critical methods to analyze visual images as they occur in photos, cartoons, memorials, television (particularly news), film (particularly documentary), and the internet.

COMM 301 THE AMERICAN VOICE: ANALYZING DISCOURSE IN PUBLIC LIFE (3) This course analyzes various forms of public address including the historical and critical study of principal speakers and speeches on American Identity, African American, Women's, and LGBTQ civil rights, politics, and

business. Emphasis is placed on developing analytical and critical thinking skills using classical and contemporary methodologies.

COMM 302 STRATEGIC PUBLIC RELATIONS WRITING (3) *Prerequisites: COMM 201W, 260.* This course engages a specialized writing curriculum developed for the contemporary public relations student. Assignments work toward cultivating relationships among a variety of audiences using traditional, organizational and social/digital media. Students will build upon theoretical public relations knowledge and further develop writing skills for clarity of message dissemination and evaluation.

COMM 303W RESEARCH METHODS IN COMMUNICATION [Writing Enriched] (3) *Prerequisites: COMM 112, 171, and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This introduction to communication research methodologies emphasizes the areas of documentation and writing as well as information retrieval, organization, and management.

COMM 304 DIGITAL EDITING AND MOTION GRAPHICS (3) *Prerequisite: ART 154 or COMM 104.* This course introduces students to the technology of digital video manipulation and motion graphics. While learning basic image layering and control, students will engage in critical analysis of professional work.

COMM 341 PROFESSIONAL AND ORGANIZATIONAL COMMUNICATION (3) *Prerequisite: COMM 101, 112, or 114.* This course introduces organizational theories and communication networks as they function in today's human organizations. Emphasis is on internal communication of the organization within itself and also on the abilities one needs in that environment, such as interviewing, group discussion techniques and decision-making, and public presentation in a business setting.

COMM 350 DISSENT AND POLITICAL COMMUNICATION (3) This course focuses on the theory, research, and practice of dissent and political communication. Students focus on voices of dissent that influence society and the course of politics as they advocate for and against social issues in a variety of public fora from street protests to presidential speeches.

COMM 362 CRISIS COMMUNICATION (3) *Prerequisite: COMM 260.* This course offers students the opportunity to study crisis communication theory applied to a variety of contexts including the significance of crisis communication in businesses, politics, entertainment, and social advocacy. Course content includes the components of crisis communication, forming a crisis management team, communication responses to crisis, effectively employing crisis communication strategies, and structuring organizational crisis communication.

COMM 372 MEDIA CRITICISM (3) *Prerequisite: COMM 171.* As both future producers and consumers of mass media texts, students face the challenge of creating and determining meaning in our society. By applying critical theory to popular culture texts, this course develops analytical skills needed to determine how meaning is placed in and taken from texts and to understand the cultural contexts of media messages.

COMM 377 STUDY ABROAD (1-6) *Prerequisite: Consent of instructor.* This course provides students with the opportunity to study principles of communication in foreign settings.

COMM 381 MOBILE AND SOCIAL MEDIA REPORTING (3) *Prerequisites: ART 154 or COMM 104 and COMM 201W.* This course critically examines how journalists and news organizations are using emerging forms of social media and mobile platforms to engage audiences. Students gain hands-on experience by experimenting with social media and mobile devices for newsgathering, distribution, and audience engagement. Students will produce a digital portfolio of multimedia stories and build their own professional journalistic brand. Students will also consider how these platforms are changing business models, fueling emerging technologies and new avenues for entrepreneurship.

COMM 382 DOCUMENTARY DESIGN AND PRODUCTION (3) *Prerequisites: COMM 201W and 202 or 206.* This course provides students with the opportunity to examine documentary film, video, and audio forms while researching and producing projects in those fields. Projects will blend field taping and editing with studio production.

COMM 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

COMM 394 CULTURE INDUSTRIES, AUDIENCES, AND THE SUPERHERO (3) In 1938, audiences were thrilled by the story of a strange visitor from another planet who had come to save them. After Superman arrived, the superhero exploded into a popular culture phenomenon in a variety of media outlets. Students will evaluate the superhero genre as both the products of culture industries and as the texts from which audiences develop meaning. Students will also develop skills and theoretical concepts to understand contemporary popular culture production and reception and to critique the popular culture texts from a variety of perspectives.

COMM 395 CULTURAL IMPACT OF POPULAR TELEVISION (3) From the early days of broadcasting to the current modes of streaming, television has played an important cultural role in our lives. In this course, students will explore the historical and cultural dimensions of television genres. Students will also examine the role of popular memory through the study of media audiences and their experiences with media.

COMM 397 INDEPENDENT STUDY IN COMMUNICATION (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

COMM 398 SPECIAL TOPICS IN COMMUNICATION (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

COMM 399 INTERNSHIP IN COMMUNICATION (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, supervising faculty, and School dean prior to registration.* This internship provides application of historical, critical, and/or theoretical knowledge under direct supervision of a practicing professional. Interns may work in radio and television stations, newspapers, advertising and public relations agencies, and other areas approved by the faculty advisors. (See "Internships.")

COMM 401W ADVANCED COMMUNICATION THEORY AND SENIOR THESIS [Writing Enriched] (3) *Prerequisites: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent, minimum of 82 credit hours of coursework, COMM 303W, and 301 or 372.* This course examines the process of theory

creation and recent developments in communication theory and research. Emphasis is placed on important theories in the areas of rhetoric, media, and speech communication. Students will design, implement, and present in correct written form an original research study that serves as their senior thesis.

COMM 404 ADVANCED DIGITAL EDITING AND MOTION GRAPHICS (3) *Prerequisite: COMM 304.* This course continues student progress in advanced digital media composition with particular emphasis on developing problem solving skills. The ability to deconstruct a creative idea into manageable components allows students to go beyond imitation and repetition and develop new creative projects.

COMM 405 COMMUNICATION LAW AND ETHICS (3) *Prerequisite: COMM 101, 112 or 114.* This course examines both legal responsibilities and ethical decisions in communication. Key principles and court rulings will be examined that define our First Amendment responsibilities and our rights to speak, publish, and dissent. Content includes libel, privacy, free press/fair trial, fighting words, obscenity, advertising and broadcast regulations, symbolic dissent, and prior restraint. This course also examines ethical theories and moral responsibilities for communication choices in personal relationships, politics, advertising and public relations, organizations, and media.

COMM 411 SUPERVISED PRACTICUM (1-3) Enrollment in these courses is limited to students holding positions of responsibility with the Critograph, the Donovan Center, the Center for Professional Communication, or the Debate and Forensics Society. Requirements and review criteria are established between instructor and student and the course is open to any Communication Studies major or minor.

COMM 412 DIGITAL LEADERSHIP AND INFLUENCER COMMUNICATION (3) In this course students cultivate strategies to listen, learn, and lead as they apply theories of inclusive leadership communication in cultures of belonging in a variety of settings including face-to-face and digital platforms to provide leadership in community, social movements, and professional organizations. Students examine their own unconscious biases and their ability to become global agents of change.

COMM 440 PUBLIC RELATIONS MEDIA AND CAMPAIGNS (3) *Prerequisite: COMM 302.* This course is an intensive experience in “real world” public relations problems. Students will draw on communication theory and engage in experiential learning while they produce “authentic” public relations campaign (or communication) materials and proposals for practical analysis. It also serves as the capstone course for the Public Relations track within the major.

COMM 450 INVESTIGATIVE STORYTELLING (3) *Prerequisites: COMM 202, 381.* Investigative storytelling means delving into stories that those involved would prefer to keep hidden. Students will master the methods of reporting and writing a digital investigative story. Students will also learn how to cultivate sources, how to acquire and use data and documents. They will sharpen their watchdog reporting skills and as they launch their own investigations. Students will produce a long-form piece to add to their digital portfolio for their final project.

COMM 485 PRODUCING AND DIRECTING FOR ELECTRONIC MEDIA (3) *Prerequisites: COMM 104, 304.* Students in this course will develop and execute advanced productions ranging from live broadcasts to multimedia presentations. Emphasis will be on the organizational processes unique to producing and directing media projects. The course will also include seminar discussions of the media industry. Students will develop material for professional portfolios.

COMPUTER SCIENCE COURSES (C S)

C S 131 FUNDAMENTALS OF PROGRAMMING (3) Three hours lecture. Introduces students to the basics of programming. This course is designed for students who have no prior programming experience. Students learn the fundamentals of programming, including the use of variables, control structures, functions, IO, and the design of algorithms.

C S 141-142 INTRODUCTION TO COMPUTER SCIENCE AND STRUCTURED PROGRAMMING I, II (4, 4) *Prerequisite: C S 141 (B- or better) for C S 142.* Three hours lecture and two hours lab. This introduction to computer science course sequence focuses on programming, problem solving, and algorithm development with implementation on a computer using a modern programming language. Topics include computer organization, debugging and testing techniques, structured programming, string processing, pointers, objects, templates, and an introduction to data structures. It is strongly recommended that students without any prior programming experience complete C S 131 before enrolling in C S 141.

C S 241-242 DATA STRUCTURES AND ALGORITHMS I, II (4,4) *Prerequisites: C S 142 (B- or better) for C S 241; C S 241 for C S 242.* Three hours lecture and two hours lab. These courses combine a study of data structures and data in computer systems. Topics may include, queues, stacks, trees, hashing, sorting, graphs, algorithm analysis, and algorithmic problem solving.

C S 298 SPECIAL TOPICS IN COMPUTER SCIENCE (3) Appropriate for freshman and sophomores, this course can focus on a wide variety of topics that provide detailed explorations of technologies of particular interest to computer science majors and minors. Topics will frequently incorporate preparation for professional certification.

C S 301 DISTRIBUTED COMPUTING (3) *Prerequisite: C S 241.* This course is a study of the models and frameworks that allow multiple network-connected computer systems to collaborate to achieve some larger functionality. Topics may include the message-oriented middleware, cloud-based storage, cluster computing, multi-tier architectures, and distributed computing protocols.

C S 322 PROGRAMMING LANGUAGES (3) *Prerequisite: C S 142 (B- or better).* Three hours lecture. This course is a comparative study of modern high-level programming languages, their syntax, and acceptors. The student is expected to write programs in any of the languages studied which may include procedural, functional, logic, object-oriented, and scripting languages.

C S 335 COMPUTER NETWORKS (3) *Prerequisite: C S 142 (B- or better).* Three hours lecture. This course is a study of the design, use, and analysis of computer networks. Topics include the major theoretical aspects of computer networks and the algorithms used in their implementation and the principal networks currently in use. Topics covered include client-server programming, and application layer, transport layer, network layer, data layer, and physical layer protocols.

C S 345 EVENT-DRIVEN PROGRAMMING (3) *Prerequisite: C S 141 (B- or better).* Three hours lecture. This course will provide the student with the tools needed to create modern graphical user interfaces for desktop and mobile devices. Core topics include the event-driven programming model, graphical coordinate systems, and libraries for creating, managing and rendering windows, and simple graphics and animation. Students will create graphical user interfaces for a number of programs.

C S 350 SOFTWARE ENGINEERING (3) *Prerequisite: C S 142 (B- or better).* Three hours lecture. This course teaches best practices for building large, reliable computing systems. Topics include software development life-cycles, agile development techniques, configuration management, test-driven develop-

ment, coding standards, design patterns, and other fundamental software engineering concepts. Students will get lots of hands-on experience as they develop a group project.

C S 360 OPERATING SYSTEMS AND COMPUTER ORGANIZATION (3) *Prerequisite: C S 142 (B- or better).* Three hours lecture. This course is a study of the hardware and software systems that make the basic components of a computer system Accessible to the applications users of that system. Topics include processes, scheduling, resource allocation, protection, virtual memory, concurrent processing, input/output processing, persistent data storage, and file systems.

C S 365 GAME PROGRAMMING (3) *Prerequisite: C S 142 (B- or better).* Three hours lecture. This course introduces the concepts of 3-D graphics and modeling and real-time interaction in an event-driven environment. Topics include geometric transformations, light models, texture mapping, special effects, 3-D sound, physics modeling, and graphics engines.

C S 370 DATABASE MANAGEMENT SYSTEMS (3) *Prerequisite: C S 131 (B- or better) or C S 141 (B- or better).* Three hours lecture. This course studies the fundamental principles and roles of database management systems. The primary focus of this class is designing and using relational databases. Other topics may include physical storage management, database theory, and alternative persistent data management systems.

C S 371 COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE PROGRAMMING (3) *Prerequisite: C S 131 or 141.* Three hours lecture. This course introduces the concepts of machine and assembly language programming and computer architecture. The student studies the syntax of assembly language and becomes proficient in writing programs in assembly language.

C S 373 MACHINE LEARNING (3) *Prerequisites: C S 241 and MATH 231 or an equivalent math class.* Machine Learning (ML) is a key field within Artificial Intelligence (AI) as it brings process automation to a new level. Beyond the theory of ML, this course will cover its application to another key area within AI, Natural Language Processing (NLP). Due to the abundance of spoken and written linguistic data on the web, NLP has become a major research and application area within AI. This course will cover both supervised and unsupervised ML algorithms. Furthermore, this course will cover applications of these ML algorithms to NLP areas like Information Retrieval and chat bots.

C S 375 PRINCIPLES OF DIGITAL SYSTEMS (3) Three hours lecture. This course explores the principal concepts of digital systems and digital circuit design. Topics include basic logic circuits, combinational-circuit design, sequential circuit design, synchronous and asynchronous circuits, and the use of a high-level hardware design language such as VHDL or Verilog. Students will gain experience building and testing their own circuits.

C S 380 ARTIFICIAL INTELLIGENCE (3) *Prerequisite: C S 142 (B- or better).* Three hours lecture. This course is a study of the theoretical issues and programming techniques involved in artificial intelligence. Core topics include search, knowledge representation, and reasoning. Additional topics may include game theory, planning, understanding, natural language processing, machine learning, neural networks, genetic algorithms, expert systems, and real-time systems. Students develop competence in a language widely used for A.I. programming, typically LISP or PROLOG.

C S 385 INTERNET PROGRAMMING (3) *Prerequisite: C S 131 (B- or better) or C S 141 (B- or better).* Three hours lecture. In this course students learn to create interactive web sites using graphics, tables, forms, styles, and database Access. Technologies used may include HTML, CSS, PHP, MySQL, and/or Javascript.

C S 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

C S 390 DATA MINING (3) *Prerequisite: CS 131 or 141.* The goal of this course is to introduce students to the different approaches of machine learning such as neural networks, decision trees, logistic regression, etc. It also aims at providing applied information about how to use these approaches to extract knowledge from data. This prepares students to enter into the area of applied artificial intelligence (AI) and data science. It also provides the skills necessary to apply machine learning techniques within the areas of bioinformatics.

C S 397 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

C S 398 SPECIAL TOPICS IN COMPUTER SCIENCE (1-3) [credit depends on topic] This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

C S 399 INTERNSHIP IN COMPUTER SCIENCE (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator; and supervising faculty prior to registration.* Internships occur in businesses or other institutions involved in computer science-related work. (See "Internships.")

C S 451-452 SENIOR PROJECT (3, 3) *Prerequisites: C S 241 and senior standing.* This is a capstone course in which the student proposes and completes an independent research or development project. Research projects involve review of significant literature and the writing of a major technical paper, which may require design, implementation, and evaluation of experimental systems. Development projects require the specification, design, implementation, testing, and analysis of a software system or concept.

CRIMINOLOGY COURSES (CRIM)

CRIM 201 CRIMINOLOGY (3) This course is a sociological analysis of the nature and extent of criminal behavior in the United States and around the world. It reviews the past and current theories that attempt to explain the causes of criminal behavior. In addition, society's response to crime, the criminal justice system, and its various components are examined.

CRIM 202 CRIMINAL JUSTICE PROCESS (3) This course presents a sociological analysis of the various practices and institutions that modern societies have created to deal with criminal behavior. The institutions examined include law enforcement, judicial and corrections, including probation, other community-based techniques, jail, prison, parole, and capital punishment. The consequences and effectiveness of each are analyzed.

CRIM 205 INTRODUCTION TO CRIMINAL FORENSICS (3) This course provides a comprehensive overview of criminal forensics to include the earliest accounts of the use of scientific proof within the British criminal justice system (now applied to the US system) to identify and convict those involved in crimes of violence. This course, organized in three parts, will discuss the historical applications of math and science into criminal analysis, discuss the legal aspects of criminal forensics as applied to human rights and victimization, and identify and discuss the various types of forensic evidence to include topics such as (but not limited to) serology and bloodstain pattern analysis, odontology, DNA, and fiber analysis. Included within this course are statistics as related to the use of scientific evidence, comparative examination of the use of scientific evidence within the global community, and discussions on the flaws in the use of physical evidence to include human errors and consequences.

CRIM 211 LAW AND SOCIETY (3) This course examines major theoretical perspectives and social science research on the relationship between law and society. It will focus on the writings of classic social scientific thinkers such as Durkheim, Weber, Marx and Simmel on the subject of law through the lens of social scientific concepts such as norms, social control, authority, and power; the school of sociological jurisprudence as expounded by legal theorists/jurists such as Pound and Brandeis; and will explore the use of the social sciences in legal arguments and reasoning.

CRIM 222 CYBER CRIME (3) This course will examine cyber crime including various forms of criminality such as the Dark Web, hacking, malware, interpersonal cyber crime, child pornography and online sexual exploitation. In addition, cyber threats by criminal groups, hackers, and nation states are outlined including cyber warfare, espionage and terrorism. A review of computer components and forensics, investigative issues, digital crime scenes, legal issues, cyber security operations, and the future implications of cyber crime to our global society completes the course.

CRIM 233 CORRECTIONS IN AMERICA (3) This course addresses the American correctional system with a focus on the prison. The course also examines the community corrections system as an analogue to prison. The course examines the theories of penology and corrections, the functionality of the prison, the experience of the offender and correctional officers, and correctional policies.

CRIM 243 JUVENILE DELINQUENCY (3) The course examines the nature and extent of juvenile delinquency in the United States and other modern societies. It explores how juvenile delinquency differs from adult criminal behavior in its legal status, causes, and the ways society reacts to it. The juvenile justice system and its various components are examined.

CRIM 245 WOMEN AND CRIME (3) This course presents an analysis of crime and how it relates to women from three major perspectives: Women as Victims; Women as Offenders; and Women as a Solution. Specifically, the course will examine victimization of females through sexual assault, domestic violence, human trafficking, etc. The course will explore both traditional and emerging types and trends of criminality committed by women plus review the challenges and opportunities faced by women pursuing a criminal justice system career today.

CRIM 246 HATE CRIMES (3) This course presents an analysis of hate crimes in the United States and around the world. Specifically, this course will focus on the various types of hate crimes (race, religion, sexual orientation, disability, gender, and ethnicity/national origin), and address the prevalence of each type of bias. Additionally, this course will identify the perpetrators and victims of hate crimes and evaluate the frequency of hate crimes through quantitative analysis. This course will also focus on the types of victimization associated with hate crime, and explain the unique challenges of investigating hate crimes, and the criminal justice response.

CRIM 250 POLICE AND SOCIETY (3) This course presents an analysis of police and how they interact with society. Specifically, this course will discuss the history of law enforcement and how it has evolved to continuously meet the unique needs of a democratic society. Additionally, this course will address the challenges of maintaining order while protecting the constitutional rights of the citizens they serve.

CRIM 255 CRIME SCENE INVESTIGATION (3) *Prerequisite: CRIM 201.* This course presents an analysis of crime and how it is evaluated and processed at a crime scene. Specifically, this course will focus on the various types of investigative techniques on how to identify and retrieve physical evidence. Additionally, this course will address the ethics and responsibility for those who handle crime scene investigations. This course will also focus on the unique challenges of how evidence is introduced in court and its influence on jurors. A lab fee is required.

CRIM 275 RESEARCH METHODS (3) This course introduces students to research methodologies in the social sciences with a grounded, real-world approach, integrating contemporary research methods using examples of real criminological and criminal justice studies to illustrate concepts and techniques. Research sources and resources from both classic and contemporary literature in Criminal Justice/Criminology are used to help students and professionals better understand the extensive diversity of research available. Research ethics and the incorporation of social justice approaches are discussed. The course covers each stage of research design from the conceptualization of the research question/hypothesis to the presentation of the findings. Students are exposed to and discuss a variety of methodological approaches including survey methods, experiments, ethnography, interview methods, and participatory action research. The course incorporates both readings and lectures on the process of research design, as well as readings and class discussion on research in practice.

CRIM 285 CRIMINAL LAW (3) The course examines criminal law in the United States and common law societies. It explores statutory construction, with a focus on the elements of criminal offenses, and how conclusions are made in their application to concrete fact patterns. It also examines Supreme Court precedent and Constitutional Rights and how key case law issues, holdings, reasoning and decisions are applied by the Court.

CRIM 301 COMPARATIVE CRIMINAL JUSTICE (3) *Prerequisite: CRIM 202.* This course examines the world's major criminal justice systems. In particular it analyzes the effects of history, culture and politics on the policies and operations of law enforcement, judicial and correctional institutions in common law, civil law, Islamic and socialist legal systems around the globe.

CRIM 319 TRANSNATIONAL CRIME (3) This course will provide an overview of transnational crime throughout our society as well as national and international responses to these crimes and its victims. This course will also discuss the history of transnational crimes, theories of victimization, and the various categories of victimization, and victim/offender typologies. Specific topics will include the changing structure of organized crime, the incorporation of technology into organized crime, human trafficking, drug trafficking, weapons trafficking, and wildlife trafficking

CRIM 320 VICTIMOLOGY (3) Victimology will provide a comprehensive overview of the process of victimization throughout our society. This course will also discuss the history of victimization, theories of victimization, and various categories of victimization, stratification and victim typologies. Specific topics will include the scope of victimization, restorative justice, victims' rights, school/workplace violence, intimate partner violence, child abuse, elder abuse, international sex trafficking, and the victimization of the disabled.

CRIM 321 CHILD ABUSE AND EXPLOITATION (3) This course presents an analysis of abuse and exploitation and how it relates to children. Specifically, this course will focus on the various types of exploitation, abuse (sexual, physical, emotional, and neglect), as well as human trafficking, etc. Additionally, this course will focus on the physical and emotional indicators of child abuse, long term effects of victimization, as well as the unique challenges of investigating child

abuse, and the criminal justice response.

CRIM 333 DRUGS, DRUG ORGANIZATIONS AND NARCO-TERRORISM (3) An overview of common illegal drugs including origins, methods of manufacture, legal classifications, and philosophical and psychological effects. Next, the punishments (sentencing), criminalization or decriminalization issues will be examined along with domestic and transnational drug organizations. Finally, Narco-Terrorism and the use of the illegal drug trade to further other agendas will be reviewed before the course concludes with the drug legalization v. criminalization controversy including the costs, benefits and pitfalls of each approach.

CRIM 372W QUANTITATIVE METHODOLOGY [Writing Enriched] (3) *Prerequisites: CRIM 275, and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course will focus on data collection and analysis techniques that are particularly useful in community settings. Attention will be given to needs and assets assessments, program evaluations, gathering and using secondary data, focus groups, and action research.

CRIM 377 STUDY ABROAD (1-6) *Prerequisite: consent of instructor.* This course provides students with the opportunity to study societal institutions and social organizations' patterns in foreign settings.

CRIM 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

CRIM 397 INDEPENDENT STUDY IN CRIMINOLOGY (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

CRIM 398 SPECIAL TOPICS IN CRIMINOLOGY (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

CRIM 399 INTERNSHIP IN CRIMINOLOGY (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, supervising faculty, and School Dean prior to registration.* This internship provides the student with a supervised work experience in a setting in which criminology is applied. Examples of work setting include, but are not limited to, law enforcement agencies, correctional agencies, and social service departments. Internships are developed by the student with the assistance from the criminology staff and/or the internship coordinator. (See "Internships.")

CRIM 401 MEDICAL FORENSICS (3) *Prerequisite: BIOL 224 or CRIM 320.* This course presents a path in how the criminal justice field and the medical/nursing field collide. This course will focus on the history of forensic nursing, child physical abuse, child sexual abuse, adult abuse and neglect, domestic violence, and adult sexual assaults. The course will address the medical aspects of care in victims of violence and how that care crosses over to the criminal justice system. Additionally, this course will address the courtroom testimony regarding fact vs. expert witnesses, and how the testimony is utilized in the court system.

CRIM 430W SENIOR RESEARCH CAPSTONE [Writing Enriched] (3) *Prerequisites: CRIM 372W, and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course is designed to be the capstone course in which the student, utilizing substantive and methodological knowledge accumulated through previous course work, will develop and test relevant research questions related to crime theories and/or criminal behaviors. The course culminates with the writing and presentation of a formal research paper.

DELL COURSES (DELL)

DELL 100-LEVEL INTEGRATIVE SEMINAR (3) In this seminar course, students work closely with faculty and their peers to explore a contemporary topic that integrates multiple perspectives, disciplines, and experiences. Seminar topics vary from section to section; every seminar section will focus on development of skills in reading, writing, and critical inquiry. This course must be completed within the student's first year at University of Lynchburg. Students take one seminar section within one of the four DELL General Education Program's distinctive integrative seminar themes.

DELL 101 FIRST-YEAR SEMINAR: GLOBAL TO LOCAL DIVERSITY THEME

DELL 102 FIRST-YEAR SEMINAR: CIVILIZATION, POWER, AND JUSTICE THEME

DELL 103 FIRST-YEAR SEMINAR: ENVIRONMENTAL AND INDIVIDUAL SUSTAINABILITY THEME

DELL 104 FIRST-YEAR SEMINAR: TECHNOLOGY AND SOCIETY THEME

DELL 300-LEVEL INTEGRATIVE SEMINAR (3) Designed specifically for students who enter University of Lynchburg with transfer student status, sections of this seminar course invite transfer students into a deep learning experience that integrates multiple perspectives, disciplines, and experiences. Seminar topics vary from section to section; each seminar section will focus on development of skills in reading, writing, and critical inquiry. This course ought to be completed within a transfer student's first semester at Lynchburg. Students take one seminar section within one of the four DELL General Education Program's distinctive integrative seminar themes.

DELL 301 TRANSFER SEMINAR: GLOBAL TO LOCAL DIVERSITY THEME

DELL 302 TRANSFER SEMINAR: CIVILIZATION, POWER, AND JUSTICE THEME

DELL 303 TRANSFER SEMINAR: ENVIRONMENTAL AND INDIVIDUAL SUSTAINABILITY THEME

DELL 304 TRANSFER SEMINAR: TECHNOLOGY AND SOCIETY THEME

DELL 400W-LEVEL INTEGRATIVE SEMINAR (3) *Prerequisites: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent; DELL 100-level seminar, DELL 300-level seminar, or equivalent; and completion of 86 credit hours or more.* In this problem-based integrative seminar, students will consider complex and significant questions that they can expect to encounter in their lives as global citizens after graduation from University of Lynchburg. Seminars will draw on multiple perspectives and disciplines to identify and explore the underlying issues raised by the problem. Seminar topics vary from section to section; each seminar section will focus on engaging in collaborative work with faculty and peers and engaging in course writing, course reading, and group work for the purpose of generating informed and evidence-based responses to the seminar section's overarching question/problem. Class discussions and readings are complemented by a series of campus speakers and lectures, which will connect the seminar section to the DELL General Education Program's distinctive themes. Students take one seminar section within one of the four DELL Program integrative seminar themes.

DELL 401W SENIOR-YEAR SEMINAR: GLOBAL TO LOCAL DIVERSITY THEME

DELL 402W SENIOR-YEAR SEMINAR: CIVILIZATION, POWER, AND JUSTICE THEME

DELL 403W SENIOR-YEAR SEMINAR: ENVIRONMENTAL AND INDIVIDUAL SUSTAINABILITY THEME

DELL 404W SENIOR-YEAR SEMINAR: TECHNOLOGY AND SOCIETY THEME

ECONOMICS COURSES (ECON)

ECON 100 ECONOMIC PERSPECTIVES (3) This course introduces students to economic concepts using a broader and less technical approach than ECON 201 and 202 and applies those concepts to social issues. Specifically, students will be introduced to general economic concepts such as opportunity cost, trade and specialization, supply and demand, and market failures. Those concepts will then be applied to key social issues such as economic inequality, discrimination, poverty, environmental policies, international trade, immigration, health care, education, and macroeconomic stabilization. Throughout the course, students will be familiarized with commonly-cited economic statistics such as GDP, trade deficit, unemployment rate, inflation, poverty rates, and income/wealth metrics.

ECON 201 PRINCIPLES OF ECONOMICS - MICRO (3) This course provides students with an introduction to the principles of microeconomics. Topics covered include scarcity, cost-benefit analysis, trade and specialization, supply and demand, elasticity, welfare economics, economic incidence, externalities, public goods, production and costs, perfect competition, monopoly, and oligopoly. Mathematical tools such as graphs, tables, and basic algebra will be used as part of the instruction of these topics. As part of coverage of these topics, economic policy issues will be discussed, including price controls, tax and spending policies, environmental policy, and antitrust policy.

ECON 202 PRINCIPLES OF ECONOMICS - MACRO (3) This course provides students with an introduction to the principles of macroeconomics. Students will be introduced to how the macroeconomy is measured, sources of long-run economic growth, the role of saving and investment in the macroeconomy, the causes of business cycles, how the banking system works, the role of money in the economy, basic international finance concepts such as exchange rates, and the impact of government policies on the macroeconomy, including monetary and fiscal policies. Mathematical tools such as graphs, tables, and basic algebra will be used as part of the instruction of these topics. Emphasis will be placed on economic institutions in the United States, such as the U.S. banking system, the Federal Reserve, and the U.S. federal budget. Similarly, emphasis will be placed on U.S. macroeconomic statistics and data sources and events in U.S. macroeconomic history such as the Great Depression, stagflation of the 1970s, and the financial crisis of 2007-2009.

ECON 255 ENVIRONMENTAL ECONOMICS (3) An examination of environmental issues from an economic perspective, this course helps students understand environmental problems by applying a rational choice framework to resource allocation decisions in the presence of externalities. Significant attention is paid to the discrepancy between market allocations that are economically efficient and regulated allocations that are socially optimal. Topics covered include the Tragedy of the Commons, production and consumption externalities, pollution abatement strategies (including regulation, corrective taxation, pollution credits, and property rights delineation), as well as the political and economic foundations of optimal environmental policy.

ECON 300 INTERMEDIATE MACROECONOMIC THEORY (3) *Prerequisites: ECON 201-202 and MATH 102, 103, or 106.* This course examines theories of national income determination, focusing attention on the factors and processes that govern the growth rate of income, employment, output, and prices. Fiscal and monetary policies, as well as supply-side strategies, to facilitate full employment and economic growth are studied.

ECON 301 INTERMEDIATE MICROECONOMIC THEORY (4) *Prerequisites: ECON 201-202, and MATH 102, 103, or 106.* This course provides a theoretical analysis of the resource allocation mechanism in a market economy, including consideration of the impacts of government policies on market outcomes. Students study the behavior of individual producers and consumers, the influence of market structure on the pricing and output decisions by firms, and the microeconomic foundations of competitive strategy. This course uses applied optimization techniques. Students are introduced generally to applied optimization early in the semester, and those techniques are used throughout the semester.

ECON 303 MANAGERIAL ECONOMICS (3) *Prerequisites: ECON 201- 202, BUAD 241 or STAT 222, and MATH 102, 103, or 106.* This course introduces the use of economic theory and new techniques of decision-making in the management of business enterprise. Cost and demand analysis, economic forecasting, profit management, capital budgeting, and pricing policies are among the topics covered.

ECON 305 MONEY, CREDIT, AND BANKING (3) *Prerequisites: ECON 201-202.* The nature and functions of money and the role played by financial intermediaries are studied with focus on full-service commercial banks and the federal reserve banks. Emphasis is placed on money creation by the depository institutions and the Federal Reserve System of the United States.

ECON 308 INTERNATIONAL ECONOMIC POLICY (3) *Prerequisites: ECON 201-202.* Focus is on important areas in current international economic policy and international trade policy, international monetary relationships, and operations of transnational corporations in the world economy. Microeconomic and macroeconomic tools are used in the study of these issues.

ECON 330 HISTORY OF ECONOMIC THOUGHT (3) This course studies the development of economic theory from scholasticism to classical thought (including Malthus, Mill, Ricardo, Smith, and Marx) to Neo-Classical economics. Each writer's contribution is evaluated in light of the development of modern economic theory.

ECON 350 ECONOMETRICS (3) *Prerequisites: ECON 201 and BUAD 241 or STAT 222.* This course generally covers multiple regression analysis, building off where previous statistics courses typically end. A significant portion of the course serves as an introduction to time-series econometric topics and qualitative regression techniques. The goal of this course is to allow students to go beyond the basic regression techniques learned in introductory statistics courses, especially as they pertain to violations of classical assumptions such as serial correlation. Upon completion of this course, students should be able to collect economic data, perform the proper regression analysis, and write-up the results for public consumption. Special emphasis will be placed on using regression analysis to assist in making business and policy decisions.

ECON 361 PUBLIC FINANCE (3) *Prerequisites: ECON 201-202.* This course is a theoretical and institutional study of government and its effects on resources allocation, income distribution, resource employment level, and economic growth.

ECON 364 URBAN AND REGIONAL ECONOMICS (3) *Prerequisites: ECON 201-202.* This study of location theory, land use, and regional development emphasizes policy problems in urban housing, transportation, crime, and pollution.

ECON 365 ECONOMICS OF TERRORISM (3) *Prerequisites: ECON 201-202.* This course explores the causes and consequences of terrorism from an economic perspective. In addition to studying the economic implications of terrorism and gaining an understanding of the fundamentals of political risk assessment, students will use principles of competitive strategy to develop and evaluate alternative responses to the terrorist threat.

ECON 377 STUDY ABROAD (3) *Prerequisite: Consent of instructor.* This course offers students the opportunity to study economics in foreign settings.

ECON 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study

away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

ECON 397 INDEPENDENT STUDY IN ECONOMICS (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

ECON 398 SPECIAL TOPICS IN ECONOMICS (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

ECON 399 MANAGERIAL ECONOMICS INTERNSHIP (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Qualified students may earn credit for an internship with a business firm or agency while being supervised by an appropriate member of the economics faculty. (See "Internships.")

ECON 400 INFORMATION, UNCERTAINTY, AND RISK (3) *Prerequisites: ECON 300 or 301.* This course offers an introduction to the tools and techniques for making decisions under conditions of risk and uncertainty, including such topics as risk analysis, scenario planning, game theory, decision trees, and contingency management. Heavy emphasis will be placed on real-world applications, e.g., information management, competitive intelligence, and security issues associated with political conflict. Students will be exposed to the challenges of dealing with ill-defined problems through a variety of case studies.

ECON 450W SENIOR SEMINAR IN ECONOMICS [Writing Enriched] (3) *Prerequisites: ECON 300-301, and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* Students are required to undertake a research project using mathematical and statistical methods introduced in BUAD 241.

EDUCATION COURSES (EDUC)

EDUC 110 HUMAN DIVERSITY IN AMERICAN SCHOOLS (3) This course is designed as an introductory level study of the human and relational dimensions of diversity in educational settings found across American schools today. Seven themes serve as a basis from which prospective candidates develop an awareness and understanding of their roles -- as both future educators and citizens -- of promoting the principles of equity and equal opportunity for all. The themes include: (a) exclusion versus inclusion; (b) intersectionality and identity; (c) equality, equity, and inequity; (d) acceptance, tolerance, and advocacy; (e) social justice; (f) bias (implicit and explicit); and (g) candidate self-reflection. Throughout these themes, candidates examine their own personal beliefs and values about all aspects of human diversity, thereby starting the journey to becoming a culturally competent teacher. Candidates will examine the implications of culturally responsive school design, curriculum, instruction, and learning.

EDUC 120 EDUCATIONAL PSYCHOLOGY AND HUMAN DEVELOPMENT (3) This course is intended and required for prospective teacher candidates pursuing licensure in elementary, secondary, and special education. This course introduces prospective teacher candidates to typical child and adolescent development in areas such as cognitive, social, emotional, physical development in order to develop expectations and curriculum that is age-appropriate. Prospective candidates will review the latest research on the brain and learning and develop an understanding of student motivation. Prospective teacher candidates learn about the effects of family disruptions, substance abuse, trauma, child abuse, neglect and other adverse childhood experiences and how to help children build resilience.

EDUC 210 FOUNDATIONS OF EDUCATION AND THE TEACHING PROFESSION (4) This course is designed to provide an overview of schools and the teaching profession. Prospective teacher candidates will examine the historical, philosophical, and sociological themes in American Education and investigate current issues affecting schools today. They will explore the legal and ethical aspects of the teaching profession as well as school organization and culture. They will be introduced to the professional standards for teachers. Practical experiences in schools provide the opportunity for observation of theories in practice.

EDUC 220 ASSESSMENT OF AND FOR LEARNING (3) *Prerequisites: EDUC 110, 120.* In this course, prospective teacher candidates will learn about different types of assessments and how to use data to make decisions about curriculum and student placement. They will learn how to design and administer classroom-based assessments and interpret a variety of assessment data. Prospective teacher candidates will understand the purpose and results of different types of assessments and make decisions about how to best utilize the information gained and they will also learn about different grading paradigms being used in schools today.

EDUC 222 HUMAN DIVERSITY AND EXCEPTIONALITIES 6-12 (3) This course is designed as an introductory level study of the human and relational dimensions of diversity and exceptionalities in grades 6-12 settings found across American schools today. Themes to include equality, equity and inequity; social justice; bias; and acceptance, tolerance and advocacy will serve as a basis from which prospective candidates develop an awareness and understanding of their roles -- as both future educators and citizens -- of promoting the principles of equity and equal opportunity for all. This course also introduces candidates to the principles, values, and policies that serve as a foundation for how individuals with exceptionalities are often perceived and served in American schools and communities. Educating students with special needs, including historical perspectives, legal and regulatory aspects, service delivery models, educational theories, philosophies, and trends will be addressed.

EDUC 240 CURRICULUM, INSTRUCTION, AND ASSESSMENT (3) *Prerequisites: EDUC 110 120, 210, SPED 220.* In this course, prospective teacher candidates will learn evidence-based practices for curriculum design that address the needs of learners at different stages of development, abilities, and achievement. Prospective teacher candidates will plan a standards-based unit that effectively utilizes technology, formative and summative assessment, and incorporates differentiation and culturally relevant pedagogy,

EDUC 309 EARLY CHILDHOOD DEVELOPMENT, LANGUAGE, AND LITERACY I (3) *Prerequisite: EDUC 120.* This course provides in depth understanding of the development of young children, developmentally appropriate practices, and curricula associated with early childhood education. Candidates will learn the effects of individual, cultural, and linguistic differences in early childhood, instructional practices that are sensitive to the needs of diverse young learners, the important role of families in the education of young children, and the importance of play for young learners. Candidates will also learn strategies for literacy development. Current policies, theories, laws, regulations, and evidence-based practices in early childhood education is stressed, along with best practices for professional behavior for educators working with children from age three to seven.

EDUC 310W LANGUAGE AND LITERACY II [Writing Enriched] (4) *Prerequisites: EDUC 309 and grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course focuses specifically on assessment and research-based instructional strategies appropriate for language, reading, and writing development in the primary grades. Candidates will learn a range of literacy assessments and how to use the results to plan for classroom instruction along with best practices for professional behavior for educators working with families. Additionally, this course provides candidates with opportunities to apply instructional skills in controlled situations under the guidance of experienced professionals. This course may require a mandatory Criminal and Social Services background check.

EDUC 314 CULTURALLY AND LINGUISTICALLY DIVERSE LEARNERS (3) *Prerequisite: EDUC 110.* This course is designed to provide candidates with instructional strategies to meet the needs of English learners in the mainstream classroom. Candidates will learn about foundations of second language acquisition, ways to assess English learners' English proficiency, effective strategies for facilitating the learning of Standard English, vocabulary and comprehension strategies, and strategies for literacy and content area courses. Candidates learn about cultural competence and culturally relevant and responsive teaching. Enrollment in EDUC 314 is limited to students enrolled in the Educator Preparation Program.

EDUC 339 CURRICULUM, METHODS, AND ASSESSMENT 6-12 (3) *Prerequisite: EDUC 222.* In this course, prospective teacher candidates will learn evidence-based practices for curriculum design and instructional methodologies that address the needs of learners at different stages of development, abilities, and achievement. Prospective teacher candidates will plan a standards-based unit in their subject area that effectively utilizes technology, formative and summative assessment, and incorporates differentiation and culturally relevant pedagogy. In this course, prospective teacher candidates will learn about different types of assessments and how to use data to make decisions about curriculum, planning and student placement.

EDUC 351 READING IN THE CONTENT AREAS (3) *Prerequisites: EDUC 210, 339, or HPE 310.* This course is designed to impart a thorough understanding of the methodologies and strategies for developing literacy skills to enhance the learning of content area subject matter across all disciplines while addressing the diverse needs of the secondary student population.

EDUC 355 METHODS FOR TEACHING ELEMENTARY SOCIAL STUDIES (3) *Prerequisites: EDUC 240, HIST 255, 256, and INTL 213 or ENV 211.* In this course, candidates will learn how to apply the content they have learned in history, geography, economics, and government to create developmentally appropriate learning activities for elementary students. They will be introduced to a variety of strategies and methods for teaching social studies and will have opportunities to reflect so they may become effective practitioners. They will critically evaluate and select developmentally appropriate materials that represent multiple perspectives. Candidates will learn how to incorporate the Virginia Standards of Learning into engaging social studies curriculum.

EDUC 362 CLASSROOM AND BEHAVIOR MANAGEMENT (3) *Prerequisite: EDUC 210 or HPE 258.* This course will provide the foundation for understanding classroom and behavior management for students at different stages of development, abilities, and grade levels. Candidates will learn professionally-appropriate practices that underscore the importance of creating a positive and responsive classroom environment that encourages the development of students' social skills and self-regulation skills. Candidates will develop an understanding of school safety plans and the importance of creating a safe, orderly classroom environment.

EDUC 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

EDUC 377 STUDY ABROAD (1-3) *Prerequisite: Consent of instructor.* This course provides students with the opportunity to study principles of education in foreign locations.

EDUC 397 INDEPENDENT STUDY IN EDUCATION (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

EDUC 398 SPECIAL TOPICS IN EDUCATION (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

EDUC 409 LANGUAGE AND LITERACY III (3) *Prerequisites: EDUC 309, 310W.* Taken the semester prior to student teaching, this course builds on knowledge acquired in EDUC 309 and EDUC 310W. This course focuses specifically on assessment and research-based instructional strategies appropriate for language, reading, and writing development in the upper elementary grades. Candidates will learn a range of literacy assessments and how to use the results to plan for classroom instruction.

EDUC 411 ADVANCED FIELD EXPERIENCE (3) *Prerequisite: Program Admission to Gateway I and passing scores on VCLA* This course provides students with opportunities to apply instructional skills in controlled situations under the guidance of an experienced professional in a local school setting. Candidates will spend 6 hours (one full day) per week in the assigned classroom. Candidates will conduct classroom observations, tutor students, as well as plan and implement small and large group instruction. On campus seminars provide opportunities for analysis and reflection. A grade of B- or above is required in this course before student teaching. This course may be retaken only once with the permission of the instructor. Enrollment in EDUC 411 is limited to candidates accepted into the Educator Preparation Program. This course may require a mandatory Criminal and Social Services background check conducted at the candidate's expense.

EDUC 419 METHODS OF TEACHING SCIENCE, TECHNOLOGY, AND MATH IN THE ELEMENTARY SCHOOL (4) *Prerequisites: EDUC 240, MATH 117, 118, and SCIE 101 or 102.* In this course, candidates will learn methods to engage and motivate PK-6 students to learn the content in science, technology, engineering, and mathematics. Prospective candidates will learn how to plan, implement, and reflect on activities in STEM fields and to differentiate activities for the variety of learners in their class.

EDUC 440 ADVANCED FIELD EXPERIENCE IN CHILD DEVELOPMENT (3-6) *Prerequisites: Successful completion of field experiences, minimum 2.5 GPA overall, consent of instructor for 3 credit hours and consent of dean for 6 credit hours.* This course provides an opportunity for a pre-professional learning experience in a non-school setting. Possibilities include preschool education, libraries, educational support programs (e.g. tutorial services) for students with special needs, and social service organizations. Open only to senior students taking the non-licensure option. Application required.

EDUC 444 FIELD EXPERIENCE II (S) (3) *Prerequisite: Admission to Gateway I and passing scores on math assessment and VCLA. Corequisite: EDUC 339.* This course provides secondary education candidates with opportunities to apply instructional skills in controlled situations under the guidance of an experienced professional. Candidates will spend 6 hours (one full day) per week in the assigned classroom. Students participate in observations, videotaped lessons, and on-site practice teaching. On-campus and in-school seminars provide opportunities for analysis and reflection. A grade of B- or above is required in this course before student teaching. This course may be retaken only once with the permission of the instructor. Enrollment in EDUC 444 is limited to students admitted to Gateway I. This course requires a mandatory Criminal and Social Services background check conducted at the end of the prior semester at the student's expense.

EDUC 475 STUDENT TEACHING (12) *Prerequisites: Completion of all major course requirements, acceptance into the Educator Preparation Program (EPP), and admission to student teaching. This course is an application of effective teaching skills and content studied throughout the candidate's Educator Preparation Program and major.* Candidates are assigned to full-time teaching blocks in local school systems under the guidance of University supervisors and classroom

cooperating teachers. Candidates demonstrate their understanding and skills in professional knowledge, instructional planning, instructional delivery, assessment of and for learning, learning environment and professionalism. This course may require a mandatory Criminal and Social Services background check conducted at the candidate's expense.

EDUC 477 STUDENT TEACHING FOR ELEMENTARY EDUCATION WITH SPED ADD-ON ENDORSEMENT (10) *Prerequisites: Completion of all major course requirements, acceptance into the Educator Preparation Program (EPP), and admission to student teaching. Co-requisite SPED 423.* This course is an application of effective teaching skills and content studied throughout the candidate's Educator Preparation Program and Elementary Education major and will be paired with a 2-credit special education practicum. Candidates are assigned to 12 weeks of full-time teaching blocks in local elementary schools under the guidance of University supervisors and classroom cooperating teachers. Candidates demonstrate their understanding and skills in professional knowledge, instructional planning, instructional delivery, assessment of and for learning, learning environment and professionalism. This course may require a mandatory Criminal and Social Services background check conducted at the candidate's expense.

EDUC 480 STUDENT TEACHING 6-12 (12) *Prerequisites: Completion of all major course requirements, acceptance into the Educator Preparation Program (EPP), and admission to student teaching.* This course is an application of effective teaching skills and content studied throughout the candidate's Educator Preparation Program and major. Candidates are assigned to full-time teaching blocks at the secondary (grades 6-12) level in local school systems under the guidance of University supervisors and classroom cooperating teachers. Candidates demonstrate their understanding and skills in professional knowledge, instructional planning, instructional delivery, assessment of and for learning, learning environment and professionalism. This course may require a mandatory Criminal and Social Services background check conducted at the candidate's expense.

ENGLISH COURSES (ENGL)

ENGL 110 COLLEGE WRITING STUDIO (3) This course is intended for students who feel they need more preparation before entering the intensive College Writing Workshop course. This course is designed to give students confidence in the basic elements of college composition through a strong understanding of sentence and paragraph construction. Students will learn the basics of academic English and the writing process. The studio approach offers students a collaborative and interactive environment where they can receive individualized guidance and support.

ENGL 123W COLLEGE WRITING WORKSHOP [Writing Enriched] (3) The College Writing Workshop is designed to enable students to become college-level academic writers at an accelerated pace. The course uses a small workshop group size class to enable students to gain more feedback from peers and the instructor and thus develop their writing quickly and effectively. The course begins with the basics of college-level essay structure and introduces students to the full writing process and all the components of an essay. The course introduces students to incorporating appropriate sources into their writing and helps students move to more complex integration and synthesis of sources. Throughout the course, students learn how to avoid plagiarism from improperly paraphrased, summarized, or documented sources. Students must earn a C- or higher in the course in order to take future Writing Enriched courses.

ENGL 201W LITERATURE AND CULTURE I: MASTERPIECES FROM ANTIQUITY THROUGH THE RENAISSANCE [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This introduction to the study of literature emphasizes the analysis of selected works from the period. The course includes a significant amount of writing related to the readings, including response essays, critical and creative papers, and tests.

ENGL 202W LITERATURE AND CULTURE II: WORKS FROM THE ENLIGHTENMENT TO THE PRESENT [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This introduction to the study of literature emphasizes the analysis of selected works from the period. The course includes a significant amount of writing related to the readings, including response essays, critical and creative papers, and tests.

ENGL 203W EXPOSITORY WRITING [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course continues the development of the writer's abilities to generate, edit, and refine written compositions through the study of professional and student expository prose. Particular attention is given to the improvement of composing methods and to the expansion of the writer's range.

ENGL 205 INTRODUCTION TO CREATIVE WRITING (3) *Prerequisite: ENGL 123W or equivalent.* This course focuses primarily on the writing of poetry and fiction and creative nonfiction and includes study of student and professional texts.

ENGL 206W FANTASY AND SCIENCE FICTION WRITING [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This is an introductory creative writing workshop course in fantasy and science fiction writing, examining topics such as composing monsters, magic, robots, and time travel. Students explore an array of interactive approaches for producing story ideas, in addition to more traditional written journal prompts. Students will also present work for critique, constructively discuss the writing of peers and published authors, produce a creative project in an artistic genre of their own choice inspired by their short fiction, and practice incorporating research into creative writing. The emphasis in this course is on the process of writing, not the product.

ENGL 207W TECHNICAL WRITING IN THE HEALTHCARE INDUSTRY [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* In this course, students will be introduced to different facets of writing in the healthcare arena, including organizational, clinical, campaign, and research perspectives. This course seeks to provide a specific skillset of writing for students pursuing healthcare-related careers, providing foundational tools that can be applied directly in the field. Students will explore various topics, purposes, and audiences of writing and analyze existing health-related documents and writing. Through multiple in-class activities and assignments, students will develop the ability to create their own health writing, implementing a variety of formats and strategies while utilizing strong and credible sources.

ENGL 208W SCIENCE WRITING FOR A GENERAL AUDIENCE [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W or equivalent.* This course is meant to be an introduction to writing about science—including nature and technology—for general readers. The aim in the reading and writing assignments will be to explore the craft of making scientific concepts and the work of scientists Accessible to the public. The focus of this course will be writing intensive and the student will be expected to complete five major writing assignments. Additionally, as part of the exploration of the craft of science writing, the student will read books, essays, and articles by writers such as Eula Biss, Steve Johnson, David Quammen, and Elizabeth Kolbert.

ENGL 209W NATURE WRITING [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* Students advance their writing skills and their understanding of the natural world by reading model texts and writing creatively in at least two genres (such as poetry, creative nonfiction, and fiction). Students explore an array of approaches for writing about nature and the environment, including detailed personal observations, and students analyze how nature writing presents complex relationships between the human and natural worlds. Field trips to nearby sites may be required.

ENGL 210 WRITING IN THE WORKPLACE (3) *Prerequisite: ENGL 123W or equivalent.* Students in this course will engage core professional writing concepts, including audience analysis, research, document design, usability, and ethical composing practices. Students will produce works including feasibility

reports, usability tests, and public relations documents. Individual and group projects are a feature of this course, as is directed service-learning interaction with community partners.

ENGL 220W INTRODUCTION TO LITERARY STUDIES [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* Using literary texts as a focal point, this course explores the nature and functions of literature, the basics of literary analysis, the three principal genres (poetry, fiction, drama), conventions of writing about literature, and methods and materials of research. The course is intended to be the first course in the English major and is required for all English majors.

ENGL 223W WRITING FOR PUBLICATION [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* Students in ENGL 223W have taken ENGL 123W or the equivalent where they learned to write, revise, and edit papers using a variety of expository forms and have practiced research and analytical writing. In this course, students will draw upon those skills to write with purpose and intent. Students will hone their reading and writing skills and apply their abilities to write effectively. With real-world application as the goal, students will work toward polishing and revising their writing as they prepare projects for publication.

ENGL 291W LITERATURE AND THE BODY: TEXTUAL AND CULTURAL EXPLORATIONS OF EMBODIMENT [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This introduction to the study of literature emphasizes the analysis of selected multicultural works from a period of at least two hundred years and focuses on written discourses which consider the human relationship to the body and embodiment. The course includes a significant amount of writing related to the readings, including response essays, critical and creative papers, and tests.

ENGL 292W LITERATURE AND NATURE: TEXTUAL AND CULTURAL EXPLORATIONS OF THE NATURAL WORLD [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This introduction to the study of literature emphasizes the analysis of selected multicultural works from a period of at least two hundred years and focuses on written discourses which consider the human relationship to environment and the natural world. The course includes a significant amount of writing related to the readings, including response essays, critical and creative papers, and tests.

ENGL 293W LITERATURE AND JUSTICE: TEXTUAL AND CULTURAL EXPLORATIONS OF MORALITY AND LAW [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This introduction to the study of literature emphasizes the analysis of selected multicultural works from a period of at least two hundred years and focuses on written discourses which consider moral principle, social justice, and lawfulness. The course includes a significant amount of writing related to the readings, including response essays, critical and creative papers, and tests.

ENGL 294W LITERATURE AND PLACE: TEXTUAL AND CULTURAL EXPLORATIONS OF LANDSCAPE AND LOCALITY [Writing Enriched] (3) *Prerequisite: C- or better in ENGL123W or HONR 103W, or equivalent.* This introduction to the study of literature emphasizes the analysis of selected works from a specific place or location and focuses on written discourses which include discussions of landscape, locality, and geography. The course includes a significant amount of writing related to the readings, including response essays, critical and creative papers, and tests.

ENGL 302 AMERICAN LITERATURE 1607-1865 (3) *Prerequisite: ENGL 123W or equivalent.* This course is a study of major literary movements and writers from the time of the earliest settlers to the Civil War. Authors of the period may include Bradstreet, Franklin, Rowson, Sedgwick, Emerson, Thoreau, Hawthorne, Melville, Stowe, and Dickinson.

ENGL 303 AMERICAN LITERATURE 1865-1999 (3) *Prerequisite: ENGL 123W or equivalent.* This course is a study of major literary movements and writers from the end of the Civil War to the end of the 20th century. Authors of the period may include Alcott, Twain, Crane, Wharton, Cather, Dreiser, Chopin, Jewett, Steinbeck, and Faulkner.

ENGL 306 MEDIEVAL LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* This course is a survey of the major English literary texts of the medieval period, 500-1500 A.D. The course explores the tensions between warfare and romance in secular and religious literature of the period, including Beowulf, Arthurian legend, mystery plays, Chaucerian poetry, and the courtly lyrics of the later Middle Ages. All Old and Early Middle English texts are read in translation.

ENGL 308W ENGLISH FOR LIFE [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course will emphasize the lifelong value of literature and writing, including such applications as graduate study and careers. Students in the course will engage with classical works that consider the value of education and what it means to live an examined life. Students will compile a personal writing portfolio suitable for both graduate applications and the job market for students of English. This course is most appropriate for English majors and minors in the first semester of the senior year who are preparing for life after graduation.

ENGL 314W HISTORY OF THE ENGLISH LANGUAGE [Writing Enriched] (3) [Teacher Licensure] *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course surveys the development of the English language from the Anglo-Saxon period to the present day. Changes in the language are explored in connection with social and historical contexts in Great Britain. Course work includes study of Old and Middle English grammar and some translation of texts. This course also focuses on application of material to teaching in the secondary schools.

ENGL 315W ENGLISH GRAMMAR [Writing Enriched] (3) [Teacher Licensure] *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* Especially recommended for those planning to teach, this course meets Virginia State Department of Education certification requirements for the teaching of English. This course offers an introduction to the basic elements of the study of language, including phonology (sound patterns), morphology (word formation), syntax (sentence structure), semantics (vocabulary), and orthography (spelling). The course also explores ways of teaching grammar and its impact on writing, reading, and speaking.

ENGL 317 TEACHING WRITING (3) [Teacher Licensure] *Prerequisite: ENGL 123W or equivalent.* In this course, designed for prospective teachers of writing, students will investigate current theory and research on the teaching of writing, consider how people learn to write, and reflect on their own writing. They will not only explore how new technologies are shaping the teaching of writing but will apply them as they create writing curricula for hypothetical students, which will include lesson plans, writing activities, and assessment tools. This course meets Virginia State Department of Education certification requirements for the teaching of English.

ENGL 320 LITERARY CRITICISM (3) *Prerequisite: ENGL 220W.* This course focuses on the application of theory to literature. It includes a survey of major modern theoretical approaches beginning with formalism and structuralism and including significant ongoing discourses such as gender studies, cultural poetics, political criticism, ethnic/race studies, and ecopoetics.

ENGL 323 MODERN MULTICULTURAL LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* Using twentieth and twenty-first century writers from around the world such as Milan Kundera, Fae Myenne Ng, and Chinua Achebe, the course explores different cultures, the effects of culture on perspective, the

historical self-concepts of various peoples, and other peoples' attitudes toward America.

ENGL 325 MODERN AND CONTEMPORARY BRITISH LITERATURE (3) *Prerequisite: ENGL 123W or equivalent* A survey of British literature from the twentieth and twenty-first centuries, this course studies the major authors, texts, and movements of the period—including Modernism, Postmodernism, and Postcolonialism. By placing texts in their historical, cultural, and formal contexts, this course examines the complexities of an evolving British identity and literary tradition from the height of Britain's global and colonial power to the gradual dissolution of the Empire. In addition to major English authors, this course will also include works from colonial authors representing nations and regions such as Ireland, India, New Zealand, and the Caribbean.

ENGL 334 GENDER AND LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* This course focuses on representations of women and men, constructions of femininity and masculinity, and sexual politics. Major issues include constructions of gender, and intersections of gender with race, class, and nationality, and the role of reading and writing in processes of social change.

ENGL 337 AMERICAN MULTI-ETHNIC LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* An examination of multi-ethnic literature by American authors in order to study and appreciate the collective construction of American identity by different cultural traditions.

ENGL 346 CREATIVE WRITING: NON-FICTION (3) *Prerequisite: ENGL 205.* This workshop deepens the student's familiarity with the craft of creative nonfiction. Course content includes readings in literary nonfiction that demonstrate a range of formal and aesthetic styles, workshop discussion of student works-in-progress, and writing assignments culminating in a portfolio or series of completed works. Upon course completion, the student will have made satisfactory progress in writing a personal essay, memoir, portrait, travel essay, or other work of creative nonfiction. The student will demonstrate competence in the workshop peer review process.

ENGL 349 CREATIVE WRITING: POETRY (3) *Prerequisite: ENGL 205.* This workshop deepens the student's familiarity with the craft of poetry. Students read model texts, write to practice a variety of poetic techniques and forms, and share their own work. Students complete a portfolio of revised poems.

ENGL 350 CREATIVE WRITING: FICTION (3) *Prerequisite: ENGL 205.* This workshop deepens the student's familiarity with the craft of fiction. Students read model texts, write to practice a variety of fictional techniques, and share their own work. Students complete a portfolio that includes revised fiction.

ENGL 353 LITERATURE OF THE TUDOR DYNASTY (3) *Prerequisite: ENGL 123W or equivalent.* A survey of the literature in England during the turbulent reigns of the Tudor kings and queens, this course includes works shaped by Humanism, the Reformation, scientific empiricism, and an emerging independent British identity. Readings may include poetry, prose, and drama, and will explore developments in literary forms in a nation entering the early modern world.

ENGL 357 LITERATURE OF THE ROMANTIC PERIOD (3) *Prerequisite: ENGL 220W.* This course focuses on the principal writers of the Romantic Period in Britain such as Coleridge, Shelley, Byron, Wordsworth, Blake, and Keats, and on the essential elements of British Romanticism.

ENGL 358 LITERATURE OF THE VICTORIAN PERIOD (3) *Prerequisite: ENGL 220W.* This course examines the literature of the Victorian period through the works of such writers as Dickens, Eliot, Carlyle, Tennyson, Arnold, the Brownings, the Brontës, and Hardy, and may include transitional authors such as Shaw, Conrad, and Yeats.

ENGL 360 THE ENGLISH NOVEL (3) *Prerequisite: ENGL 220W.* This course allows students to study the development of the novel through the Eighteenth and Nineteenth centuries in England. The course considers the novel as a genre and narrative and thematic innovations in English novels through the different periods.

ENGL 362W THE SHORT STORY: FROM FAIRY TALES TO FLASH FICTION [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* The short story is an enduring and flexible form, with roots in fairy tales and oral narratives developing into written classic, contemporary, and experimental fiction. This study of narrative via the short story genre gives students a variety of critical perspectives to enhance their acumen as readers and creators of literary texts.

ENGL 365 MODERN POETRY (3) *Prerequisite: ENGL 123W or equivalent.* This course focuses on poetry through the twentieth and twenty-first centuries. The course considers poetry as a genre and examines the innovations in poetic conventions through different modern literary periods.

ENGL 366 SOUTHERN LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* An overview and analysis of the seminal prose and poetry of the American South from the twentieth and twenty-first centuries. Writers under examination will include such figures as William Faulkner, the fugitive poets, Eudora Welty, Alice Walker, and Lee Smith.

ENGL 371 CONTEMPORARY LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* An examination of literature written in English from the second half of the twentieth century to the present.

ENGL 377 STUDY ABROAD (3) This course provides students with the opportunity to study in foreign settings.

ENGL 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

ENGL 397 INDEPENDENT STUDY IN ENGLISH (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor, and credit is dependent on the nature of the work. May be repeated for no more than six credits.

ENGL 398 SPECIAL TOPICS IN ENGLISH (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

ENGL 399 INTERNSHIP IN ENGLISH (1-6) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* The internship program allows students practical experience in fields using their training as English majors. Interns may work in such settings as radio and television stations, advertising and public relations agencies, local industries and civic organizations, state and local governments, and individually designed situations. (See "Internships.")

ENGL 414 CHILDREN'S LITERATURE (3) *Prerequisite: ENGL 123W or equivalent.* This interdisciplinary course will explore children's literature as the only genre defined by its audience. It asks students to consider: What is the purpose of children's literature? What is its relationship to literary history and popular culture? How do scholars and students evaluate its formal elements? Students in this course will encounter readings from recognized children's authors such as Lewis Carroll and Louisa May Alcott, as well as from contemporary children's and young adult writers who represent diverse perspectives.

ENGL 417 CHAUCER (3) *Prerequisite: ENGL 220W.* This course introduces students to the range of works by the poet Geoffrey Chaucer (c. 1343-1400), as well as the cultural context in which he lived. The course explores the poet's longer narrative works, including the *Canterbury Tales*, and a sampling of his prose and short lyrics with emphasis on the impact of Chaucer's writings on modern audiences. All texts are available in translation.

ENGL 420 SENIOR SEMINAR IN ENGLISH (3) *Prerequisite: ENGL 220W.* Using knowledge of literary history, genres, form, and techniques, as well as expertise in writing and interpretation, senior English majors will assemble a theme-based literary anthology comprising texts from specified eras and genres. These anthologies will also include a formal introduction and headnotes for each entry. Senior standing is normally required to enroll.

ENGL 421 SHAKESPEARE'S TRAGEDIES AND HISTORIES (3) *Prerequisite: ENGL 123W or equivalent.* The class provides an in-depth study of the best-known tragedies and most important English history plays by Shakespeare. Some attention is given to major critical approaches and background material.

ENGL 422 SHAKESPEARE'S COMEDIES AND ROMANCES (3) *Prerequisite: ENGL 123W or equivalent.* The class focuses on the romantic comedies, the problem plays, and the romances. Some attention is given to major critical approaches and background material. This course does not build on ENGL 421 and ENGL 421 is not a prerequisite for this course.

ENGL 424 ADVANCED CREATIVE WRITING (3) *Prerequisites: Two of the following: ENGL 346, 349, 350.* This course includes advanced study of craft in published and student work. Students complete a portfolio of revised creative writing and learn about the current strategies and trends of creative writing engagement, including publication.

ENVIRONMENTAL SCIENCE COURSES (ENVS)

ENVS 111 ENVIRONMENTAL SCIENCES AND SUSTAINABILITY I (4) Three hours of lecture and three hours of laboratory. This course offers an interdisciplinary introduction to the scientific study of the earth with an emphasis on environmental changes and their implications. Topics focus on human and biological dimensions, including population and community ecology, species interactions, environmental health, and environmental law and policy. Special emphasis is placed on scientific literacy, using environmental examples to teach students how to explore, interpret, and analyze issues affecting the planet. A lab fee is required.

ENVS 112 ENVIRONMENTAL SCIENCES AND SUSTAINABILITY II (4) Three hours of lecture and three hours of laboratory. This course offers an interdisciplinary introduction to the scientific study of the earth with an emphasis on environmental changes and their implications. Topics focus on physical and geological dimensions, including rocks and minerals, renewable and nonrenewable energy resources, atmosphere and climate, and geologic hazards such as earthquakes and volcanoes. Special emphasis is placed on scientific literacy, using environmental examples to teach students how to explore, interpret, and analyze issues affecting the planet. A lab fee is required.

ENVS 201W HISTORY OF EARTH AND LIFE [Writing Enriched] (4) *Prerequisites: Grade of C- or higher in ENGL 123W, HONR 103W or equivalent, and BIOL 113-114 or ENVS 111-112.* This course provides an overview of the Earth's composition, structure, and the geologic processes that continually shape the planet. Special attention will be given to rocks, minerals, plate tectonics, and the history of the geology. The biological evolution of life on Earth will be studied by examination of fossils and the fossil record. A lab fee is required.

ENVS 211 PHYSICAL GEOGRAPHY (3) Three hours lecture. This course provides a broad natural science background for students. The interrelationship of the lithosphere-hydrosphere-atmosphere, climate-soil-vegetation, and landforms of the world bring into perspective observable natural phenomena.

ENVS 238 INTRODUCTION TO RESEARCH (1-3) *Prerequisite: Consent of supervising instructor.* This course provides the beginning student the opportunity to conduct lab, field, or library research under the supervision of a faculty member. Credit is dependent upon the scope of the work.

ENVS 321 CONSERVATION ECOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. This course addresses biological diversity at the genetic, population, and species levels. In particular, human impacts on diversity are investigated, and practical approaches to understanding and preventing extinction are explored. In addition, the mechanisms underlying large-scale ecological processes and their changes across space and time are examined, with the relationships among landscape structure, resource distributions, and populations also studied. A lab fee is required.

ENVS 324 SUSTAINABLE FOREST MANAGEMENT (4) *Prerequisites: satisfactory completion of the following: BIOL 113-114 or ENVS 111-112.* This course teaches the principles and techniques of forest management from both economic and environmental standpoints. Students will be trained in silviculture, dendrology, and timber cruising and harvesting during lectures, labs, and field trips. Topics related to timber harvesting such as watershed management, wildlife conservation, rangeland management, global climate change, and outdoor recreation will also be explored. The importance of managing forests so that they do not become depleted will be the overriding theme of the course. A lab fee is required.

ENVS 331 PRINCIPLES OF HYDROLOGY (4) *Prerequisites: CHEM 111, MATH 103.* Three hours lecture and three hours laboratory. This course is a study of the principles and theory of surface water and groundwater flow, chemistry, and quality; understanding and determination of water budget, hydrologic cycle, and Darcy's law; social, political, and economic issues related to hydro-logical systems. A lab fee is required.

ENVS 333 PHYSICAL OCEANOGRAPHY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. This course focuses on ways in which oceans function and interact with earth systems. Consideration is given to ocean currents and vertical mixing, water chemistry, heat and energy transfer, sea floor geology, and coastal processes. A lab fee is required.

ENVS 336 PHYSICAL GEOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. This course is a study of the earth's structure, composition, surface features and processes, rocks, minerals, mountain building, volcanoes, earthquakes, and the weathering and erosional effects of wind, water, and ice. A lab fee is required.

ENVS 338 ENVIRONMENTAL GEOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. This course is a systematic study of processes that operate at or near earth's surface and influence the development, preservation, and destruction of natural environments. Topics covered include the influence of fluvial, atmospheric, mass-wasting, glacial, volcanic and tectonic systems on the environment. Mitigation strategies to pre-

vent environmental degradation will be discussed. A lab fee is required.

ENVS 340 INTRODUCTION TO REMOTE SENSING (3) *Prerequisite: Junior/senior standing.* This course introduces students to the science and applications of remote sensing, with a focus on data acquisition and analysis. Remote sensing platforms including aerial photography and satellite imagery – as well as the use of unmanned aerial vehicles and drones – will all be addressed and explored. Students will study the relevance of remote sensing technologies across a variety of fields, including land cover mapping, climate change assessment, pollution detection, and disaster monitoring.

ENVS 345 METEOROLOGY (3) *Prerequisites: BIOL 113-114 or ENVS 111-112.* This class investigates the structure, components and processes of the earth's atmosphere. Global circulation patterns, precipitation, tropical systems, severe weather events, and air pollution issues are all studied. Understanding how to analyze and produce weather forecasts will be emphasized.

ENVS 347 CLIMATOLOGY (3) *Prerequisites: BIOL 113-114 or ENVS 111-112.* This course explores how the atmosphere, oceans, and land masses all interact to influence earth's climate. Various local climates on our planet will be studied along with influencing factors such as latitude, topography, land-water interactions, and air and ocean circulation. A special emphasis will be placed on understanding both short- and long-term natural climate changes, and how humans might influence such variability.

ENVS 365 WETLAND ECOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* This course provides an overview of the ecology, hydrology, vegetation, wildlife, biogeochemistry, and conservation issues of wetlands. Special attention will be given to the legal and mitigation issues surrounding wetland conservation and preservation. A lab fee is required.

ENVS 366 EXPERIENTIAL GEOLOGY: FROM DIGS TO DISPLAYS (3) *Prerequisites: ENVS 387 and participation in the GeOPaths program.* This course encompasses a variety of career planning and training activities for students enrolled in the GEOPaths program. Some of the activities include transferable career skills like resume building, interview techniques, job search skills, and cover letters. There will be guest lectures from a diverse group of geoscientists who will discuss their personal experiences in the field, and their path to a career. Students enrolled in this course will complete a semester-long project under the mentorship of the instructor and a staff member from the Virginia Museum of Natural History.

ENVS 375 FRESHWATER ECOLOGY (4) *Prerequisites: BIOL 113-114 or ENVS 111-112.* Three hours lecture and three hours laboratory. This course focuses on the physical, chemical, and biological properties of the freshwater environment. A special emphasis will be placed on studying anthropogenic impacts on aquatic habitats and their organisms. A lab fee is required.

ENVS 377 STUDY ABROAD (3) This course provides students with the opportunity to study principles of environmental science in foreign settings.

ENVS 380 GEOGRAPHIC INFORMATION SYSTEMS (GIS) (4) *Prerequisite: Junior/senior standing.* Three hours lecture and three hours laboratory. This course introduces students to the theory and practice of Geographic Information Systems (GIS) and prepares them for its use across numerous fields of study. Geographic Information Systems (GIS) is specially designed hardware and software for the analysis and display of spatially explicit data. With intelligent digital maps, such systems allow users to store, query, and retrieve information based on desired parameters. A lab fee is required.

ENVS 366 EXPERIENTIAL GEOLOGY: FROM DIGS TO DISPLAYS (3) *Prerequisites: Participation in the GEOPaths grant, ENVS 387.* This course encompasses a variety of career planning and training activities for students enrolled in the GEOPaths program. Some of the activities include transferable career skills like resume building, interview techniques, job search skills, and cover letters. There will be guest lectures from a diverse group of geoscientists who will discuss their personal experiences in the field, and their path to a career. Students enrolled in this course will complete a semester-long project under the mentorship of the instructor and a staff member from the Virginia Museum of Natural History.

ENVS 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

ENVS 397 INDEPENDENT STUDY IN ENVIRONMENTAL SCIENCES (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

ENVS 398 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCES (1-4) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

ENVS 399 INTERNSHIP IN ENVIRONMENTAL SCIENCES (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* This internship is offered to qualified students allowing them to gain personal and practical experience in various areas of environmental science. Internships include but are not limited to working in environmental laboratories, natural resources conservation, restoration of natural areas, and help with research projects conducted by senior scientists and engineers.

ENVS 428 INDIVIDUAL RESEARCH IN ENVIRONMENTAL SCIENCES (1-6) *Prerequisites: Junior or senior standing; consent of supervising instructor.* This independent opportunity to conduct a field, laboratory, or literary study project culminates in a formal paper and/or presentation as directed by the supervising instructor. Credit is dependent on the nature of the work but may not exceed three credit hours per semester.

ENVS 490 ENVIRONMENTAL SCIENCE SEMINAR (1) *Prerequisite: Senior standing.* Students in this course will receive training on the practicalities of using their majors to obtain graduate school or job placement. The focus of the class is on career-readiness activities such as resume writing, interview skills, cover letters, and personal statements. Students should leave this course with the tools to successfully apply for employment or graduate schools

EQUINE STUDIES AND MANAGEMENT

EQMG 100 INTRODUCTION TO EQUINE STUDIES AND MANAGEMENT (3) A survey of the equine industry, exploring the history of the horse, the current landscape of the equine industry, and career opportunities. Basic horse care skills will be covered, including handling, grooming, daily care, and basic anatomy. A course fee is required.

EQMG 101 INTRODUCTION TO HORSES AND RIDING (1) This course will introduce students to the basics of handling horses, grooming, tacking, and riding. Students will learn the basic aids, and control of the horse, and develop their skills riding on the flat at the walk, trot, and canter. This course will include mounted and unmounted instruction. A course fee is required.

EQMG 200 FARM AND STABLE MANAGEMENT (1) *Prerequisite: EQMG 101.* The course will include a basic study of anatomy, conformation, gait analysis, and biomechanics of movement, which will be examined in the context of different equine disciplines. Nutrition, lameness, and land management topics will be covered. Current topics affecting the equine industry will also be covered. Students will participate in hands-on equine behavior and learning demonstrations and develop proficiency with emergency equine care and vital signs. The importance of vets, equine dentistry, and farriery will be discussed and demonstrated. The course will include components of stable management such as marketing, financial planning, human resource issues, and risk management. A course fee is required.

EQMG 201 INTERMEDIATE HUNT SEAT RIDING (1) *Prerequisite: EQMG 101.* Students will continue to develop riding skills. Emphasis will be on the implementation of the American System of Forward Riding through exercises on the flat and over fences. Students will participate in mounted riding sessions as well as additional unmounted instruction as needed. A course fee is required.

EQMG 260 MANAGEMENT OF EQUESTRIAN ACTIVITIES (3) *Prerequisite: EQMG 101.* This course will focus on all aspects of equine competition management and will explore the governing bodies of equestrian sports and the role they play in competitions. This class will be responsible for organizing and facilitating two equestrian events during the semester. All aspects of event management and competitions will be covered. The role of licensed competition officials including show stewards, course designers, and judges will be discussed.

EQMG 300 PRINCIPLES AND THEORY OF RIDING INSTRUCTION (3) *Prerequisites: EQMG 200, 201, and 260.* This provides students with an immersive experience focusing on an area of the equine industry of their choosing and approved by faculty in the areas of horse care and farm management, riding instruction and competition, or management of equestrian activities. Students will work with faculty to design a comprehensive experience either on campus or off-site within the industry to develop a complete understanding of the respective area of the industry. Students will be responsible for a capstone project and presentation that discusses their experience. A course fee is required.

EQMG 301 ADVANCED HUNT SEAT RIDING (1) *Prerequisite: EQMG 201.* This course will focus on more technical over-fences courses and exercises to prepare riders and horses for competition. Riders in this course should be comfortable jumping fences at 3' or above and should be capable of riding many different horses. A course fee is required.

EQMG 415 INTERNSHIP IN EQUESTRIAN MANAGEMENT (3) *Prerequisites: EQMG 200, 260, and EQMG 201 or 301.* This provides students with an immersive experience focusing on an area of the equine industry of their choosing and approved by faculty in the areas of horse care and farm management, riding instruction and competition, or management of equestrian activities. Students will work with faculty to design a comprehensive experience either on campus or off-site within the industry to develop a complete understanding of the respective area of the industry. Students will be responsible for a capstone project and presentation that discusses their experience.

EXERCISE PHYSIOLOGY COURSES (EXPH)

EXPH 100 PHYSIOLOGICAL ASSESSMENTS IN EXERCISE PHYSIOLOGY (3) This hands-on course is designed to teach the exercise physiology major about tests used to assess health and skill related physical fitness. Students will learn how to conduct and participate in various assessments of physical fitness. Course fee is required.

EXPH 200 EXPLORATION IN EXERCISE PHYSIOLOGY (3) *Pre or corequisite: EXPH 100 or permission of the department chair.* This course will examine the numerous career opportunities that exist in the field of Exercise Physiology, how they relate to the field of study, and what are the qualifications and certifications needed to pursue a career in the specific sub-disciplines of Exercise Physiology. This course will also focus on techniques regarding reading and locating research as well as incorporate scientific writing techniques about different topics within exercise physiology.

EXPH 225 BASIC EMERGENCY AND INJURY CARE MANAGEMENT (3) *Prerequisite: EXPH 100 or permission of the department chair.* This course is designed to introduce students to basic orthopedic injuries, conditions, and disorders. In addition, students will learn basic emergency management.

EXPH 325 PHYSIOLOGY OF EXERCISE (3) *Prerequisites: BIOL 224, 225.* This course studies the human body's short term and long term adjustments to exercise. Topics include: musculoskeletal function, energy metabolism, respiratory adjustments, heart and circulatory adjustment, neural control, temperature regulation, environmental effects, and conditioning principles.

EXPH 326 ADVANCED PHYSIOLOGY OF EXERCISE (3) *Prerequisite: EXPH 325.* This course is designed to provide students with an in-depth study of physiological and biochemical alterations occurring in the human body as a result of exercise. Topics will include control of bioenergetics, exercise metabolism, acute and chronic adaptations to aerobic and resistance training programs, physiology of performance, environmental effects, hormonal responses, and temperature regulation.

EXPH 342 LABORATORY TECHNIQUES IN EXERCISE PHYSIOLOGY (3) *Prerequisites: EXPH 325, STAT 222.* This course provides students with the opportunity to learn the techniques used in laboratories to test the physiological changes in response to acute and chronic exercise. Students will be required to utilize their knowledge of the underlying physiology and the responses to exercise in order to accurately examine and explain the observations.

EXPH 350W RESEARCH METHODS IN EXERCISE PHYSIOLOGY [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent, Prerequisite or corequisites: EXPH 326, 342.* This course is a capstone designed to teach students the research process as it pertains specifically to exercise physiology. Students will be expected to utilize their knowledge of exercise physiology in the discussion of how to conduct quality research, how to critique current relative research in the profession, and how to summarize research for understanding by the lay population. Students must complete this course with a C or better and have IRB approval of a research proposal if they choose to take EXPH 451 as an elective.

EXPH 355 SCIENTIFIC PRINCIPLES OF STRENGTH AND CONDITIONING (4) *Prerequisite: EXPH 325.* Three hours lecture and two hours laboratory. This course provides students with the scientific principles and practical skills to develop and adjust conditioning programs. Students learn how to design conditioning programs to address strength, power, speed, agility, and endurance needs. Students also learn how to adjust programs for those with special needs (e.g. injuries) so programs can be safe and effective. The lab will entail movement instruction, practice, and hands-on coaching experience. Students will be required to participate in learning the various movements, practicing the movements in order to work towards becoming proficient as well as observe and critique fellow classmates on the movements.

EXPH 377 **STUDY ABROAD (1-6)** *Prerequisite: Consent of instructor.* This course provides students with the opportunity to study principles of exercise physiology in foreign settings.

EXPH 380 **KINESIOLOGY (3)** *Prerequisites: BIOL 224,225.* This course is a study of the origin, mechanics, and effectiveness of human motion.

EXPH 387 **DOMESTIC STUDY AWAY (3)** Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

EXPH 397 **INDEPENDENT STUDY IN EXERCISE PHYSIOLOGY (1-3)** *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

EXPH 398 **SPECIAL TOPICS IN EXERCISE PHYSIOLOGY (1-3)** [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

EXPH 415 **INTERNSHIP IN EXERCISE PHYSIOLOGY (1-12)** *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; EXPH 326, 342, 355; approval by internship coordinator, and supervising faculty prior to registration.* This course offers a professional internship with an appropriate health fitness organization/program. The student and faculty sponsor agree on the location and responsibilities of the intern. The number of credits depends on the number of hours involved. (See "Internships.")

EXPH 425 **ADVANCED HEALTH AND FITNESS EVALUATION AND PROGRAMMING (3)** *Prerequisites: EXPH 326, 342.* This course provides the student with the knowledge and skills necessary for risk stratification, physiological assessment, interpretation of test results, and design of health and activity programs for apparently healthy populations. Emphasis on developing competency in following ACSM guidelines for exercise testing and prescription will be stressed.

EXPH 426 **EXERCISE PHYSIOLOGY OF SPECIAL POPULATIONS (3)** *Prerequisites: EXPH 425.* This course is designed to discuss physiological differences in populations such as children and youth, older adults, pregnant women as well as populations with diseases such as heart disease, pulmonary disease, obesity, and diabetes and the modifications required for exercise testing and prescription of these populations.

EXPH 435 **LEADERSHIP AND PROFESSIONALISM FOR EXERCISE PHYSIOLOGISTS (3)** *Prerequisite or corequisite: EXPH 425.* This course explores leadership techniques and professionalism issues relevant for a variety of settings in the health and fitness industry. Students will be introduced to legal, organization and risk management aspects associated with working in the health and fitness industry. The role of leadership in managing human and fiscal resources and creating marketing plans will also be covered.

EXPH 451 **RESEARCH METHODS IN EXERCISE PHYSIOLOGY: DATA COLLECTION AND FINAL MANUSCRIPT (2)** *Prerequisite: EXPH 350W (C or better) and IRB approval of a research proposal.* This course is an elective second research course designed for students to complete a research project that has already been proposed and approved by the Institutional Review Board. Students will integrate their knowledge of exercise physiology as well as their skills and mastery at performing a myriad of assessments to collect data, analyze results, and write a final manuscript according to professional guidelines. The course will culminate with the student presenting their research at the Student Scholar Showcase or an equivalent forum approved by the instructor.

EXPH 455 **FITNESS AND PERFORMANCE LEADERSHIP (3)** *Prerequisite: EXPH 355.* This course will build on foundational knowledge and provide opportunities for students to develop skills and abilities related to speaking with clients, coaching clients around behavioral change, prescribing exercise, and demonstrating proper utilization of exercise equipment for enhancement of cardiovascular and musculoskeletal fitness. The course provides a focus on exercise program design, leadership, communication, behavior modification, and administrative issues related to fitness leadership and personal training.

EXPH 470 **SPORTS NUTRITION (3)** *Prerequisite: EXPH 325.* This course will discuss macronutrient and micronutrient needs in relation to physical activity. Additional topics include ergogenic aids and the timing of food and fluids before, during, and after physical activity for optimal performance.

FINANCE COURSES (FIN)

FIN 150 **FAMILY AND PERSONAL FINANCE (3)** This functional course is designed to meet the needs of individuals and married couples in their attempt to save, invest, and spend wisely. Primary emphasis is placed on buying a house, appropriate life insurance policies, and investing in the stock market.

FIN 317 **PRINCIPLES OF FINANCE (3)** *Prerequisites: ACCT 200, ECON 201-202, and one of the following: General Education math or BUAD 241.* This course examines basic financial principles involving procurement, allocation, and control of funds of the business firm. Topics include maximizing shareholder wealth, time value of money, stock and bond valuation, risk and expected return, capital budgeting, and financial statement analysis.

FIN 318 **FINANCIAL MANAGEMENT (3)** *Prerequisite: FIN 317.* This course applies basic financial techniques and principles to financial administration, policy, and decision-making of the firm. This course also examines ethical issues involved in financial administration, policy, and decision-making. The case-study method is used. A continuation of FIN 317. Through case analysis and discussion, students will gain increased sophistication in their knowledge and application of managerial models relevant to the topics covered in the Principles of Finance. The course will also introduce in-depth material in the areas of capital market behavior, mergers, acquisitions, divestitures, and international finance.

FIN 320 **FINANCIAL WELLNESS AFTER COLLEGE (2)** Students will learn best practices for financial success post-college. Topics covered will include, but are not limited to: managing student loan debt, proper use of debt instruments such as credit cards, salary expectations and negotiations, personal banking and investing, renting vs. homeownership, taxes and government assistance, saving and retirement planning, insurance (including health, property, life, and auto), geographic differentials in cost of living, and the financial implications of life choices such as marriage and children. Students will make real-life budgets assuming their own expected career paths. Finally, students will explore the role that financial wellness plays in other areas of well-being such as physical, emotional, and spiritual dimensions.

FIN 387 **DOMESTIC STUDY AWAY (3)** Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that

allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

FIN 397 INDEPENDENT STUDY IN FINANCE (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

FIN 398 SPECIAL TOPICS IN FINANCE (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

FIN 405W INVESTMENT FUNDAMENTALS [Writing Enriched] (3) *Prerequisites: ECON 201-202, FIN 317, and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course studies the economic, fundamental, and technical analysis of financial securities and their use in achieving investment objectives. The course focuses on assessing the risks and returns offered by the major classes of financial securities and their derivatives; the assessment of intrinsic versus market values; the construction of portfolios for different purposes and basic portfolio management practices; and the mechanics of participation in securities markets.

FIN 420 FINANCIAL RISK MANAGEMENT (3) *Prerequisite: FIN 317.* This course studies financial risk management through the identification and management of the risk factors affecting firms. The primary focus is on the valuation and applied use of key derivative contracts including forwards, futures, options, and swaps. Topics include characteristics of derivative markets, pricing models, trading mechanisms, contract specifications, hedging, speculating, and the management of corporate risk through derivative contracts.

GENERAL STUDIES COURSES (G S)

G S 104 COLLEGE SUCCESS STRATEGIES (1) This support course teaches the skills and strategies, and encourages the attitudes a student needs to achieve the academic goals the University set forth for its students as part of its mission. Goal-setting, time management, note-taking, active reading, and other important study skills and strategies are addressed. The course also provides students with opportunities for self-reflection and development of decision-making strategies to help them make a smoother transition into college. Attention is also devoted to student understanding of basic academic rules and regulations.

G S 105 CAREER DEVELOPMENT FOR THE LIBERAL ARTS AND SCIENCES (1) Open only to freshmen and sophomores, this course introduces students to the career-decision making process through self-assessment, major/career exploration, and the integration of this information into career fields. Particular emphasis is given to the use of the Internet as a resource for career exploration.

G S 111 APPLIED INFORMATION LITERACY – BASIC 1 (1) This course introduces students to information retrieval skills needed for successful research and critical analysis of information in the scholarly setting as well as everyday life activities. Topics covered will include types of information and classification schemes, basic library research skills, and strategies for finding monographic resources in Knight-Capron Library.

G S 112 APPLIED INFORMATION LITERACY – BASIC 2 (1) This course introduces the student to types of information found in the periodical literature and their application to scholarly activities and life-long learning situations. In addition to exploring different types of periodicals, print and electronic indexes that are used to locate appropriate resources will also be covered. The course will introduce students to the issue of plagiarism and how to avoid it.

G S 113 RESEARCH STRATEGIES FOR COLLEGE PAPERS AND PRESENTATIONS (1) This course is designed to develop critical thinking skills when using Internet information resources for academic course work. Search strategies, topic analysis, Boolean logic, and refinement of searching techniques are among the areas covered as they apply to available online databases and Web search engines. In addition to improving students' Internet skills, the course develops a better understanding of how and when to use electronic resources.

G S 150 EFFECTIVE READING STRATEGIES (1) This course is designed to provide instruction and support to enable individuals to comprehend complex college readings. The course provides instruction in research-based strategic reading strategies found to improve reading success along with individual or small group tutoring sessions for support in applying strategies.

GS 151 EFFECTIVE WRITING STRATEGIES (1) This course will provide instruction and support to enable students in comprehending essential writing skills including grammar/mechanics, content, and organization. The course will utilize a textbook that covers standard English and writing instruction.

G S 175 ACADEMIC SURVIVAL SKILLS: WHAT EVERY COLLEGE STUDENT SHOULD KNOW (2) This course will provide new students with an overview of university life placing an emphasis on the development of reading, writing, and research skills needed to be successful in college. This course will also focus on self-leadership and self-management assisting the transition from high school to college.

G S 201 PEER TUTORING/MENTORING SEMINAR (1) This course is based on a theoretical framework of peer-based tutoring, mentoring, and advising coupled with direct application through learning resource services, the LC Connections program, and academic/career advising. The learning format combines a weekly one-hour seminar with a weekly one-hour session of direct tutoring, mentoring, and/or advising.

G S 220 EXPLORING SOCIAL ENTREPRENEURSHIP AND LEADERSHIP (1) The course will explore what it means to be a social entrepreneur in a wide variety of fields. Guest lecturers will include entrepreneurs working in non-profit and for-profit settings who will discuss their personal experiences as leaders and entrepreneurs, and describe the qualities they feel are necessary for students to become effective leaders and successful entrepreneurs.

G S 277 STUDYABROAD: CROSS-CULTURAL EXPLORATIONS (1) This course prepares students to participate in an international, cross-cultural experience. Students will address issues related to the cultural and practical side of international travel.

G S 293 APPLIED INFORMATION LITERACY – ADVANCED (1) This course focuses on the development and practical application skills necessary to find and evaluate efficiently a wide variety of information sources for major term papers, presentations and other student research courses, including the senior theses. It is designed to be taken concurrently with a course that involves a substantial student research project with the approval of the course professor. As the content is based on the nature of the specific research project, this course may be repeated in conjunction with additional research projects.

G S 303 PROFESSIONAL AND BUSINESS ETIQUETTE IN THE WORK PLACE (1) This class is open to all students and does not require a pre-

requisite. This course explores professional business etiquette in organizations and prepares students to understand appropriate behavior with regards to: co-worker interaction, professionalism with supervisors, professional use of email and social media, appropriate dress for the workplace, customer service relationships, office romance policies and office gossip along with dining etiquette.

G S 304 RESUMES AND MOCK INTERVIEWS (1) This class is open to sophomore, junior, and senior students and does not require a prerequisite. This course will assist students in creating differing styles of resumes and interviewing skills in order to prepare students whether it is for the corporate world, graduate school or other post graduate applications. Particular emphasis will be placed on catering their resume type and practicing interviewing techniques for life after University of Lynchburg.

G S 305 ADVANCED CAREER DEVELOPMENT: PLANNING FOR YOUR FUTURE (1) Open to upperclassmen, this course will assist students in planning their entry into the world of work, creating resumes and cover letters, developing interviewing and networking skills, and exploring graduate/professional school and other options. Particular emphasis will be placed on activities that develop skills which will enhance the initial stage in one's career.

G S 306 CAREER NETWORKING (1) This class is open to sophomore, junior, and senior students and does not require a prerequisite. This course introduces career networking through a variety of contexts. Specific, interpersonal relationship building is explored using face-to-face as well as social media contexts for short and long term career networking. Socially acceptable industry practices are examined as students are offered pragmatic strategies to build professional networking relationships.

G S 330 LEADERSHIP IN ACTION PRACTICUM (3) *Prerequisites: Must complete at least six credit hours from BUAD 222, 265, and MGMT 260.* This course provides a capstone experience for students pursuing the Leadership minor. In accordance with the University's strategic emphasis on experiential learning, students will apply leadership principles in a variety of real-world settings while under the guidance of an academic advisor. In the course of this experience, they will develop their own personal leadership style and demonstrate leadership action through the initiation or support of an organizational initiative.

G S 360, 361 WASHINGTON CENTER SEMINARS (2,3) *Prerequisite: Students in good academic standing with consent of faculty sponsor.* Washington Center seminars provide short-term programs in which participants explore selected topics in depth. Students attend lectures and participate in panel discussions and small group discussions. Past topics have included international relations, business, politics, law, leadership, women's issues, and communication. Evaluation is based on participation, journal entries, and written work. Grades are determined cooperatively by the Washington Center and faculty sponsor. G S 360 involves a seven- to nine-day program granting two credits; G S 361 involves a twelve- to fifteen-day program granting three credits.

G S 377 STUDYABROAD (3) *Prerequisite: Permission of instructor.* This course provides students with foreign study and travel experience. The course develops multiple perspectives, including, but not limited to, cultural, economic, historical, and political.

G S 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

G S 397 INDEPENDENT STUDY IN GENERAL STUDIES (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

G S 398 SPECIAL TOPICS IN GENERAL STUDIES (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

G S 399 INTERNSHIP IN GENERAL STUDIES (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, supervising faculty, and Associate Vice President for Academic Affairs prior to registration.* This internship is career-focused and bridges more than one academic discipline. (See "Internships.")

HEALTH AND PHYSICAL EDUCATION COURSES (HPE)

HPE 116 THE TEACHING OF TEAM SPORTS (2) This course involves the development of skill, tactics, teaching, and analysis of team sports. Students develop their skills and tactical play to a competent level and acquire the ability to teach, analyze, and assess skilled performance based on a learner's developmental level. Students will demonstrate skill and tactics in authentic environments as well as plan, instruct, and assess learners in these sports. A lab fee is required for upkeep and maintenance of equipment utilized in the course.

HPE 118 THE TEACHING OF INDIVIDUAL SPORTS AND DANCE (2) This course involves the development of skill, tactics, teaching, and analysis of individual sports and dance. Students develop their skills and participate to a competent level and acquire the ability to teach, analyze, and assess skilled performance based on a learner's developmental level. Students will demonstrate skill in authentic environments as well as plan, instruct, and assess learners in an individual sports and dance environment. Course fee.

HPE 119L THE TEACHING OF OUTDOOR PURSUITS AND FITNESS EDUCATION (2) This course involves the development of skill, tactics, teaching, and analysis of outdoor pursuits and fitness education. Students develop their skills and tactical play to a competent level and acquire the ability to teach, analyze, and assess skilled performance based on a learner's developmental level. Students will demonstrate skill and tactics in authentic environments as well as plan, instruct, and assess learners in these endeavors. Course fee.

HPE 125 ROCK CLIMBING AND VERTICAL ROPE WORK (1) This course is designed to provide the student with the skills and experience to enjoy the sport of rock climbing and other vertical endeavors. The focus of the course is on rope work, anchor building, rappelling, and top rope climbing. Classes will be held in the classroom, on the ropes course, on local rock faces, and in local caves.

HPE 126 CHALLENGE COURSE AND ADVENTURE TRAINING (1) This course is an overview of challenge course programming and adventure training. Classes will be taught in the classroom as well as utilizing the low and high elements of the New Horizons Adventure Course. Topics covered include group facilitation, debriefing, problem solving, initiatives, and trust building activities.

HPE 127 BASIC BACKPACKING AND HIKING (2) This course is designed to teach the basic skills and concepts of backpacking and hiking. Topics

will include: camping, cooking, fire and stove use, equipment, safety, nutrition, map reading skills, first aid, trail etiquette, campsite selection, pace, tents, packing skills, and bear hang construction. Additional fee is required.

HPE 128 BASIC CANOEING AND KAYAKING (2) This course is designed to teach the basic skills and concepts of flat water canoeing and kayaking. Topics will include individual canoeing and kayaking skills such as: various strokes, safety, portaging, entering and exiting a canoe and kayak safely, map reading skills, interpreting water and weather conditions, and trip planning. Students will be required to participate in off-campus trips to the James River, Smith Mountain Lake, and/or Holiday Lake. An additional fee may be required.

HPE 129 MOUNTAIN BIKING (2) This course is designed to teach the basic skills and concepts of mountain biking. Topics will include group and individual biking skills such as braking, climbing, shifting, and navigating over rough terrain. Other topics will include bike repair and adjustments, basic first aid, safety, map reading, and trip planning. Students will be required to have their own mountain bike and helmet. An additional fee is required.

HPE 141 ELEMENTARY TENNIS (1) This course offers instruction and practice in forehand, backhand, serve, and volley with competition in singles and doubles.

HPE 149 STRENGTH TRAINING (1) This course provides instruction in principles of conditioning utilizing free weights, body resistance, and weight machines. Individualized programs of flexibility and strength are implemented.

HPE 190 HATHA YOGA (1) This course emphasizes Iyengar-style and includes standing poses, forward bends, back bends, and inversions for the beginning student, as well as integration of the breath with asanas (postures).

HPE 191 CONSCIOUS RELAXATION TECHNIQUES FOR STRESS MANAGEMENT (1) This course includes the techniques of visualization, slow-motion movement, Benson's relaxation response, and breath management.

HPE 205 COACHING APPRENTICESHIP (1-6) *Prerequisite: Consent of the instructor.* This course provides students with an apprenticeship experience in coaching a selected sport with emphasis on observation, leadership, and management of skill development. If more than one HPE 205 is taken it must be applied to experiences with different sports. Only one HPE 205 experience can be done within the University of Lynchburg Intercollegiate Athletic Department.

HPE 258 FOUNDATIONS OF HEALTH AND PHYSICAL EDUCATION (3) This course introduces educator preparation program (EPP) candidates to the teaching profession, including the professional (InTASC and Uniform Performance Standards) and ethical standards and dispositions expected of teachers. Candidates develop an understanding of the historical, philosophical, and sociological foundations underlying the role, development, and organization of public education in the United States as well as how health and physical education are part of those processes. Candidates examine the legal status of teachers and students, including federal and state laws and regulations, and explore the local, state, and federal governments' influence on education.

HPE 259 SCHOOL HEALTH CONTENT (2) *Prerequisites: HPE 258, LVWL 100.* This course will offer an overview of selected topics in health content required for teacher candidates preparing to teach health education in public schools.

HPE 303W HUMAN AND MOTOR DEVELOPMENT [Writing Enriched] (3) *Prerequisites: BIOL 224,225, and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course describes and analyzes normal motor development across the lifespan, from prenatal development through older adulthood. It emphasizes identifying and classifying motor behaviors across the lifespan, as well as understanding the interaction of environmental, biological, and task factors that affect acquisition of these movement behaviors. Laboratory experiences are included. Additional skills covered in this course will include an understanding of the physical, social, emotional, speech, language, and intellectual development in order to guide learning experiences in a meaningful way for teacher candidates and future practitioners in the field.

HPE 304W SPORT, EXERCISE, AND PERFORMANCE PSYCHOLOGY [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course will examine the factors that influence socialization and motivational process in sport, exercise, and performance psychology. This course explores psychological and social processes in sport, exercise, and physical activity. We examine both how psychological and social factors influence physical activity participation and performance, and how participating in exercise/physical activity affects psychological well-being. We explore theoretical, methodological, and applied approaches to a variety of topics including motivational and behavioral strategies, stress and coping, self-perceptions, social relationships, communication, performance enhancement, character and moral development, and exercise adherence.

HPE 310 PK-5 PHYSICAL EDUCATION CURRICULUM AND METHODS (4) *Prerequisite: HPE 258.* This course is designed to develop a candidate's proficiency to deliver developmentally appropriate physical education instruction for grades PK-5. On-site observations and experiences in the application of curriculum and methods will be included.

HPE 320 6-12 PHYSICAL EDUCATION CURRICULUM AND METHODS (4) *Prerequisites: HPE 310.* This course is designed to develop a candidate's proficiency to deliver developmentally appropriate physical education instruction for grades 6-12. On-site observations and experiences in the application of curriculum and methods will be included.

HPE 335 COMPREHENSIVE SCHOOL HEALTH PRACTICUM (4) *Prerequisites: HPE 259 and PBHL 270.* The focus of this course is on candidate proficiency in curriculum development and methods in school health education. It includes health concerns of school-age populations, curriculum resources, and unit and lesson plan development.

HPE 361 ASSESSMENT IN HEALTH AND PHYSICAL EDUCATION (3) *Prerequisite: HPE 310.* This course focuses on analyzing and assessing performance from quantitative and qualitative perspectives and the proper use of various instruments in health and movement.

HPE 363 HEALTH AND PHYSICAL EDUCATION FOR EXCEPTIONAL POPULATIONS (2) *Prerequisite: SPED 220.* This course surveys individualization of instruction for persons with challenging conditions and provides on-site clinical experiences with exceptional populations.

HPE 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

HPE 397 INDEPENDENT STUDY IN HEALTH AND PHYSICAL EDUCATION (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for

investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

HPE 398 SPECIAL TOPICS IN HEALTH AND PHYSICAL EDUCATION (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

HPE 401 INTRODUCTION TO DRIVER EDUCATION (3) The content organization of the vehicle operator's tasks as presented in an instructional program. Included are defensive driving, psychophysical factors and the effects of natural and traffic laws on the vehicle operator.

HPE 402 DRIVERS EDUCATION INSTRUCTIONAL PRINCIPLES (3) *Prerequisite: HPE 401 for driver education endorsement.* A lab course for practice of instructor's tasks for teaching drivers education to the beginning driver. Included are classroom, in-car and multiple instructional tasks.

HPE 415 INTERNSHIP IN HEALTH AND PHYSICAL EDUCATION (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* This course offers a professional internship with an appropriate health fitness organization/program. The student and faculty sponsor will agree on the location and responsibilities of the intern. The number of credits will depend on the nature of the project and the number of hours involved in the project. (See "Internships.")

HPE 468 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION PK-12 (12) *Prerequisite: Admission to student teaching.* This course is an application of effective teaching skills and content studied throughout the candidate's Educator Preparation Program and major. Candidates are assigned to full-time teaching blocks in local school systems under the guidance of University supervisors and classroom cooperating teachers. Candidates demonstrate their understanding and skills in professional knowledge, instructional planning, instructional delivery, assessment of and for learning, learning environment and professionalism. This course may require a mandatory Criminal and Social Services background check conducted at the candidate's expense.

HISTORY COURSES (HIST)

HIST 103W TURNING POINTS IN WORLD HISTORY [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course answers the question, "what is history?" and introduces students to methods of historical inquiry through the examination of selected major "turning points" in world history – showing students how historians debate and evaluate evidence. Students will acquire historical skills (close reading, analysis, deduction, reconstruction of the original setting for sources) that are transferable to a wide range of other areas of academic study, and to their future careers – in business, education, government, non-profits, and health care. Students will also reflect on how history shapes the present.

HIST 105W HISTORY OF DISEASE AND MEDICINE (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course answers the question, "what is history?" and introduces students to methods of historical inquiry through the examination of selected major "turning points" in world history ---showing students how historians debate and evaluate evidence. This course will focus on historical "turning points" through the lens of disease and medical discourses and practice. How has disease and reactions to discourses associated with disease and medical practice impacted societies historically? Students will acquire historical skills (close reading, analysis, deduction, reconstruction of the original setting for sources) that are transferable to a wide range of other areas of academic study, and to their future careers – in business, education, government, non-profits, and health care. Students will also reflect on how history shapes the present.

HIST 106W WAR AND SOCIETY (3) *Prerequisite: Grade C- or higher in ENG 123W, HONR 103W, or equivalent.* This course answers the question, "what is history?" and introduces students to methods of historical inquiry through the examination of the relationship between war and society. - showing students how historians debate and evaluate evidence. Students will acquire historical skills (close reading, analysis, deduction, reconstruction of the original setting for sources) that are transferable to a wide range of other areas of academic study, and to their future careers – in business, education, government, non-profits, and health care. Students will also reflect on how history shapes the present. Topics covered in this course may include warfare and empire in the ancient world, the Arab conquests and the spread of Islamic civilization, the European conquests of Latin America and Africa, the consequences of total war in the twentieth century (gender relations, totalitarian ideologies, genocide, decolonization, and globalization), the Cold War, and global terrorism.

HIST 200W THE HISTORIAN'S CRAFT [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* An introduction to historical methods and writing, this course exposes students to ways in which historians think and assists students in developing research topics, conducting original research, and presenting the results in the form of papers and reports. Normally taken in the sophomore year, it is required of all history majors and is open to any student interested in the historical perspective.

HIST 203 CRIME AND PUNISHMENT IN AMERICA (3) The course is an overview of changing attitudes concerning legal and extralegal issues in crime and law enforcement in America. Among the issues it will address are the roles of race, gender, religion, ethnic origin, and sexuality in the interplay of cultural and legal perceptions in defining, policing, and punishing crimes. It may include such topics as punishment of chattel slaves and penal servitude in the eighteenth and nineteenth centuries, the use of chain gangs and prison farms in the nineteenth and twentieth centuries, rise of the ethnic gangs in the nineteenth and twentieth centuries, the use of civil disobedience in the 20th and 21st centuries, and the rise of anarchism and terrorism in the nineteenth and twentieth centuries.

HIST 243 CONTEMPORARY AFRICA (3) This introduction to Africa from an interdisciplinary perspective includes geography, history, social structure, political development, and culture. Themes include the impact of colonialism and African nationalism, the role of women in society, the quest for social justice, leadership, and politics since independence, and the role of Africa in world affairs.

HIST 255 AMERICA TO 1877 (3) This course deals with the founding American colonies, their growth, and eventual break with England that led to the establishment of the republic. Subsequent topics include Federalism, Jacksonian Democracy, Slavery and Sectionalism, the Civil War, and Reconstruction.

HIST 256 AMERICA SINCE 1877 (3) This course examines the changes that have redefined American life since the 1870s. Special attention is given to the impact of industrialization and urban development, and the emergence of the United States as an international power. Issues of gender, race, class, and family are explored through class discussion, role plays, and debates. Special attention is given to local manifestations of larger historical developments such as war, politics, and social change.

HIST 265 INTRODUCTION TO ARCHAEOLOGY (3) This course is an introduction to the methods, theories, and history of the discipline of archaeology. It presents a variety of approaches and techniques used by archaeologists to analyze the material remains of human activities in order to understand human behavior, culture, and history. Archaeological case studies will range widely and examples will be taken from anthropological, classical, and historical studies in archaeology from around the globe. These examples will span from the earliest hunter-gatherers, to classical civilizations, and to the birth of the modern world.

- HIST 275** **LATIN AMERICAN HISTORY (3)** This course examines the history of the Spanish- and Portuguese-speaking countries of Latin America from the colonial period to present-day, with a brief overview of pre-Columbian civilizations. Major themes will include the Iberian legacy, the role of the Catholic Church, cultural development, social and political evolution, and changing economic contexts. Modern issues to be examined include social hierarchies, revolutionary movements, periods of dictatorship, and the history of democratic change in the region.
- HIST 300** **VIRGINIA HISTORY (3)** This course examines the history of the Virginia colony and commonwealth. It explores the development of the state's changing economy, its creation of social intricacies and hierarchies, its interaction with different ethnicities within and near its borders, its shift in forms of labor, and its political contributions as a colony, as a state, and as part of the modern world.
- HIST 301** **RISE OF THE AMERICAN CITY (3)** This course examines the changes in the functions of the city in American society and the transformation of urban life from the colonial period to the present. Topics include America's evolution from an agricultural to an urban society, the impact of industrial and transportation technologies as well as migration on the city, and the redefinition of urban politics.
- HIST 305** **ENGLAND IN THE MIDDLE AGES (3)** This course traces the development of England as a state from the Roman invasions through the Middle Ages to the early modern period, including the origins of Parliament and the Common Law, the Hundred Years War, and the War of the Roses.
- HIST 306** **GREAT BRITAIN SINCE 1714 (3)** This course covers the creation of the British Empire and its evolution into the British Commonwealth through revolutions, colonial crises, and two world wars.
- HIST 311** **MEDIEVAL CULTURE (3)** This course covers the breakup of the Roman Empire, development of feudal institutions, growth of the Church, rise of towns, the development of commerce, political theory, art, music, and literature.
- HIST 312** **RENAISSANCE AND REFORMATION (3)** This course presents the flowering of art, literature, music, and science; the emergence of the sovereign state; and the religious crisis of the sixteenth century.
- HIST 322** **EUROPE SINCE 1914 (3)** In this course the diplomatic approach is utilized with emphasis on the interaction of the major European nations (and the United States after World War II) as they deal with the realignment of power after World War I, the rise of Nazism, the expansion of Communism into Eastern Europe after World War II, the emergence of the European Union, and the fall of the Berlin Wall.
- HIST 323** **GREEK CIVILIZATION (3)** This consideration of all phases of Greek achievement places special attention on intellectual and artistic accomplishments and Greek historical writing.
- HIST 324** **ROMAN CIVILIZATION (3)** This course is a survey of Rome's political, social, economic, and cultural history as a background for our culture today.
- HIST 330** **MILITARY HISTORY (3)** This course is a survey of the military in American and European history from the seventeenth century to the present.
- HIST 333** **THE CIVIL WAR AND RECONSTRUCTION (3)** This course examines the period 1850-1877 including the causes and consequences of the war, the major battles, the changes in political parties, and the attempt to provide constitutional protection for the freedmen.
- HIST 336** **AMERICAN SOCIAL HISTORY (3)** This course is an examination of the experience of Americans in such social contexts as gender roles, family, work, and leisure from the Colonial period to the present. The impact of historical factors on American attitudes and lifestyles are of particular interest.
- HIST 339** **ATLANTIC WORLD IN THE SEVENTEENTH CENTURY (3)** This course is a study of the initial development of Atlantic civilization from the first contacts between Europeans and indigenous peoples in the Americas and sub-Saharan Africa, to the establishment of permanent Portuguese, Spanish, English, French, and Dutch settlements in the above-mentioned areas, ending ca. 1701.
- HIST 340** **ATLANTIC WORLD IN THE EIGHTEENTH CENTURY (3)** This course traces the evolution of Atlantic civilization from the establishment of European empires and the exploitation of Africa and the Americas, to the wave of revolutions that swept these regions between 1776 and 1830.
- HIST 343** **SOUTH AFRICAN HISTORY (3)** This course focuses on the social, political, cultural, and economic life of contemporary South Africa and its changing role in the world, all set in the context of its history and character as a 'Rainbow Nation.' Students will consider South Africa's prospects for establishing a multiracial democracy while facing a host of social and economic challenges: unemployment, crime and violence, and an HIV/AIDS epidemic that threatens social cohesion.
- HIST 344** **HISTORY OF WOMEN IN THE AMERICAS (3)** The course will use the lives of women to understand the shared American experience, as well as to determine which factors make each region of the Americas unique. Students will explore the historical forces that created "the Americas," focusing on the commonalities and differences of the North American and Latin American regional histories. Students will look at transnational movements such as the abolitionism and feminism as well as Latin American responses to the United States and its policies.
- HIST 347W** **SLAVERY AND RACE IN THE EARLY AMERICAS [Writing Enriched] (3)** *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* An examination of the roles slavery and emerging European understandings about racial difference played in the social, cultural, and political development of settler societies in the Americas. By studying the economic structures, cultural interactions, and moral quandaries created by the African slave trade, the course will lead to a fuller appreciation of the culturally embedded and historically constructed intertwining of economics, ideas, race, and identities in the early Americas.
- HIST 348** **RACISM AND EMPIRE IN THE AMERICAN CONTEXT (3)** As the continuation of HIST 347 Slavery and Race in the Early Americas, this course examines the practice of modern racism and imperialism in the Americas during the nineteenth and twentieth centuries. The course investigates how conceptions of race and national identity influenced the European and American pursuit of empire during the era of "new imperialism". Topics covered include racism in America after the Civil War, eugenics and "scientific" racism, anti-semitism, and American and European involvement in Latin America and Asia.
- HIST 349** **PUBLIC HISTORY (3)** Public History is history that is seen, heard, read, and interpreted by a popular audience. Public historians expand on the methods of academic history by emphasizing non-traditional evidence and presentation formats, reframing questions, and in the process creating a distinctive historical practice. This class introduces the student to the methodology and practical applications in the field.

HIST 353 THE HOLOCAUST (3) This course introduces students to Nazi Germany's systematic mass murder of Jews in Europe during the Second World War. Topics to be covered in this course include Jewish life in Europe prior to the 20th century, the origins of racial anti-Semitism, the development of National Socialist ideologies, the origins of Nazi racial policies in the 1930s, Nazi eugenics and euthanasia campaigns, the war of annihilation waged against Jews under Germany's control during World War II, the mass murders of other groups during the war, Jewish resistance to the Holocaust, and the help or lack thereof offered by non-Jews to mitigate the Holocaust.

HIST 370 THE U.S. AND THE WORLD (3) This course traces the history of American foreign relations from the Revolutionary period to the present within the context of national development and world politics.

HIST 371 HISTORY OF DRUGS AND THE DRUG TRADE IN THE AMERICAS (3) This course seeks to explore the history of the drug trade, focusing on the trade between the U.S. and Latin America in order to understand perceptions of trafficking and U.S. drug consumption from both sides of the border. Beginning with an examination of the seventeenth century, the class will explore how certain drugs, such as marijuana, came to be viewed as dangerous. The course will continue exploring the relationship between U.S. demand and Latin American production. Students will learn the history of U.S. drug policy, and the effects this policy has had on Latin American producing nations.

HIST 375 HISTORY OF LOVE AND SEX IN LATIN AMERICA (3) This course will examine the historical forces that affect the role definitions, institutions, and behaviors related to gender relationships, love and courtship, the formation of families (formally through marriage or informally through cohabitation), and sexual expression in Latin America from the 1870s to the present. Students will also examine the intersections of gender with class and race to demonstrate how society has used these social constructions to create and reinforce hegemony.

HIST 377 STUDY ABROAD (3) Through travel to another country, this course provides the student the opportunity to study the historical, political, economic, social, and cultural development of that country and compare it with the development of the United States.

HIST 379 HISTORY AND POLITICS OF THE MIDDLE EAST AND NORTH AFRICA (3) This course is a survey of the Middle East from the birth of Islam in the seventh century to the present, although most of the course focuses on the modern era. Through an exploration emphasizing the growth and decline of the Ottoman Empire, this course analyzes Islamic ideas and institutions as the foundations for state and social organizations, cultural patterns of continuity and change, the origins and record of Great Power involvement in the region, the rise of Arab and other nationalist movements, the emergence of successor states in the nineteenth and twentieth centuries, the Arab-Israeli conflict, relations between states in the Middle East and the United States, and the wave of uncertain change sparked by the "Arab Spring."

HIST 380 AMERICA IN THE 1960s (3) This course addresses some of the problems, potentials, and legacies of the 1960s by sampling the opinions of historians and contemporary observers about such issues as the women's movement, the civil rights movement, the Kennedy and Johnson presidencies, the counter culture, New Left, and Vietnam.

HIST 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

HIST 388 MODERN EUROPE AND THE WORLD (3) This course presents the history of Europe from the end of the Thirty Years' War (1648) to the Eve of the First World War (1914). Topics will include the Scientific Revolution, the French and Industrial Revolutions, the birth of modern ideologies like nationalism and socialism, and how European imperialism affected the rest of the world.

HIST 389 TUDOR AND STUART ENGLAND (3) This course is a study of the evolution of English institutions and culture from the Tudors through the Stuarts. Topics will include the Reformation, the development of Parliament, England's rise as a maritime power, the Civil Wars, the Commonwealth period, the restoration of monarchy, the Glorious Revolution, and the development of political parties, but also the rise of what would become the British Empire.

HIST 397 INDEPENDENT STUDY IN HISTORY (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

HIST 398 SPECIAL TOPICS IN HISTORY (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

HIST 399 INTERNSHIP IN HISTORY (1-6) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* An internship is a planned work experience for academic credit under the supervision of a qualified professional who is responsible for professional performance and a faculty sponsor who is responsible for academic quality and who assigns the final grade. (See "Internships.")

HIST 402W HISTORY SENIOR THESIS SEMINAR [Writing Enriched] (3) *Prerequisites: HIST 200W, senior standing, and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* Students will write a thesis based on primary sources and relevant secondary material on a topic of their own choosing. The instructor will consult with students during each phase of the research process and evaluate the progress of the thesis throughout the semester.

HONORS COURSES (HONR)

HONR 100 WESTOVER WORLD (1) This course prepares students for the honors experience by providing them with essential skills needed to function effectively as members of a living and learning community.

HONR 103W WRITING THE WORLD [Writing Enriched] (3) This course emphasizes the process of writing in which students produce a range of expository essays. Students' writing and reading skills are refined through the close analysis of selected texts and careful editing of student writing. Students must earn a C- or higher in the course in order to take future Writing Enriched courses.

HONR 110 TRADITIONS AND REVOLUTIONS (3) This foundation humanities readings course for the Westover Honors program will explore major issues marking both change and continuity in the West over the last three millennia. Highlighting the honors college themes of ethics, gender, globalization, and

sustainability, the course will promote sophisticated historical thinking, intellectual maturity, and close reading of works representing ancient, medieval, and modern thought and experience. Primary source readings are emphasized.

HONR 121 BEYOND NUMBERS (3) This overview of the fundamentals of mathematics includes selected topics such as symbolic logic, elementary set theory, theory of numbers, inductive and deductive reasoning, analysis of algorithms, geometry, probability, calculus, and mathematical foundations of computer science.

HONR 131 GLOBALIZATION AND ITS DISCONTENTS (3) This course is an inter-disciplinary analysis of economic, political, and social issues including issues related to methods of social research.

HONR 200 NATURAL RESOURCES STEWARDSHIP (4) Three hours of lecture and three hours of laboratory. As a species, humans alter their environment to a greater degree than other organisms do, and both positively and negatively, environmental changes impact all life on Earth. In this course students examine the basic principles of ecosystems, economics, and societies; evaluate the effects of personal and policy actions on the welfare of our planet; and apply multidisciplinary perspectives to equitably address human societies' needs and natural systems' viability. Laboratory experiences emphasize evaluating and implementing responsible resource stewardship locally, regionally, and globally.

HONR 211W EXPLORING THE LITERARY LANDSCAPE [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course is a comparative study of selected texts from world literature that provides students with multiple perspectives on significant human issues.

HONR 212W REASON AND RESPONSIBILITY [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This seminar examines major schools of philosophy and/or major religious traditions with discussion of varied specific topics within these disciplines.

HONR 221 IMAGINATION AND CREATION (3) This seminar provides interdisciplinary inquiry into the processes of imagination and artistic creation, relationships among the visual and performing arts, and the social and cultural values of the fine arts. A lab fee is required.

HONR 341, 342, 343, 344, 345, 346 HONORS COLLOQUIUM (3) Thematic colloquia are organized around artistic, philosophical, scientific, and other issues in areas such as war and peace, tyranny and freedom, poverty and wealth, and faith and morals. Recent colloquia include "The Film Maker as Philosopher," "The Challenge of Economic Change After Communism," "Probability and Reality," and "Re-thinking American Literature."

HONR 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

HONR 397 INDEPENDENT STUDY IN HONORS (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

HONR 398 SPECIAL TOPICS IN HONORS (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

HONR 451W SENIOR HONORS PROJECT [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* An approved project must be developed with a faculty advisor and evaluated with the aid of a three-person faculty committee that includes the advisor and an instructor from outside the project's discipline. Each project must meet the guidelines of the Westover Program's "Policy on the Senior Honors Project." All students must complete a minimum of three hours of Senior Honors Project. Students are encouraged to pursue a project in their major discipline, although interdisciplinary projects are acceptable if approved by the advisor. Enrollment in the senior honors project for six hours credit ordinarily requires one project of appropriate depth to necessitate a full year of attention or two individual projects credited at three hours each.

HUMAN SERVICES COURSES (HMSV)

HMSV 201 THE SCIENCE AND ART OF MEETING HUMAN NEED (3) With interdisciplinary roots and global reach, the core of the human services discipline is the respect for, awareness of, and action toward meeting human need. In this introductory course, students will focus on four themes: (1) The ethical principles and historical foundations of human services; (2) contemporary service settings in human services; (3) vulnerable populations with whom human services professional work; and (4) the underpinnings of the generalist human services perspective. Students will write, speak, and think critically about key issues related to human rights, social justice, human need, and professional helping.

HMSV 210 DOMESTIC VIOLENCE: INTERVENTIONS AND ADVOCACY (3) This course will survey theories, interventions, and advocacy topics regarding the causation of domestic violence, the history of domestic violence in contemporary United States, and the policy issues on the local, state, and national levels. Specific topics addressed in this course include: Defining domestic violence, assessing lethality, power and control, effects on children, religion and domestic violence, same sex partners, laws and programs, specialized interventions, advocacy approaches, and safety planning. This course is designed to empower future human services practitioners with the conceptual frameworks and knowledge base necessary for effective intervention and advocacy.

HMSV 220 WORKING WITH GROUPS AND COMMUNITIES (3) This course provides an opportunity for students to explore the topics of group work and community work. The course strongly emphasizes understanding, affirming, and respecting groups with diverse background, including (but not limited to) race, ethnicity, culture, class, gender, sexual orientation, religion, physical or mental ability, age, and national origin. Content is taught utilizing empirically-based theories, interventions, and advocacy approaches that maximize client goals in groups and communities. Students consider their roles as emerging leaders and practitioners in the human services field.

HMSV 268 SOCIAL WELFARE POLICY (3) The focus of this course is on introducing students to the history of social welfare policy in the United States, and engaging students in critical thinking around the impact of past and current policies on the welfare of individuals in urban and rural communities with whom human service professionals interact.

HMSV 285 RESEARCH WITH DIVERSE POPULATIONS: COMMUNITY-BASED PARTICIPATORY ACTION RESEARCH (3) This course provides students with an introduction to the human services action research foundations and framework toward the goal of developing an action research proposal in which qualitative and quantitative methodological and analysis techniques are utilized to address an area of practice, policy, or other pertinent topic in human

services that relates to a theme of diversity, cultural competence, international populations, vulnerable populations, and/or underrepresented or overrepresented populations in the human services sector

HMSV 320 MENTAL HEALTH, SUBSTANCE ABUSE, AND CHILD WELFARE: HUMAN SERVICES CASE MANAGEMENT (3) *Prerequisite: HMSV 201.* In this course, students will be exposed to the processes and procedures involved with the many career fields in which human services professionals work with a focus on client populations who interact with human services mental health, substance abuse, and child welfare services. Students will learn to apply these processes and procedures to develop the skills necessary to develop culturally competent models of professional practice and be effective and ethical case managers, program managers, advocates, and supervisors.

HMSV 375 EVIDENCE-BASED PRACTICE AND EVALUATION (3) Using professional practice and program evaluation as a framework for enhancing students' knowledge and skills in social science research, this course focuses on the art and science of conducting rigorous and ethical qualitative, quantitative, and mixed-methods studies. Students will focus on the evaluation research process, the conducting evaluation research, evaluating and analyzing evidence-based practice, and the collection and analysis of data in human services settings.

HMSV 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

HMSV 396 HUMAN SERVICES PRACTICUM (3, 6) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, supervising faculty, and school dean prior to registration.* This course provides students in the Human Services program with a supervised practicum experience in a setting consistent with the student's professional area of interest. Examples of practicum settings include, but are not limited to, social services departments; primary and secondary schools; higher education student affairs departments; human service agencies and organizations; community organizing coalitions; grass roots organizations; mental health, substance abuse, and crisis intervention service settings; and hospital organizations. Practicum experiences are developed by the student with assistance from the human services faculty and/or the practicum coordinator. Practicum experiences are intended for students completing the Human Services minor.

HMSV 397 INDEPENDENT STUDY IN HUMAN SERVICES (1-3) *Prerequisites: Approval of faculty sponsor, coordinator of human services program, and school dean; and junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six (6) credits.

HMSV 398 SPECIAL TOPICS IN HUMAN SERVICES (1-3) *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her enrollment.

HMSV 399 INTERNSHIP IN HUMAN SERVICES (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, supervising faculty, and school dean prior to registration.* This course provides the student with a supervised work experience in a setting in which human services is applied. Examples of internship settings include, but are not limited to, human and social service agencies, government organizations, non-profit agencies, hospitals, and case management/behavioral health companies. Internships are developed by the student with assistance from the human services faculty and/or the internship coordinator. Human services internships are intended for students to use as an elective course; and for students seeking supervision from human services faculty for an internship in their major (completion and approval of required paperwork for substitution courses would be required).

INTELLIGENCE AND SECURITY STUDIES COURSES (ISS)

ISS 200 INTRODUCTION TO THE INTELLIGENCE COMMUNITY (3) This foundational course is designed to provide students with the context and concepts that form the basis for the intelligence-gathering and analysis. After reviewing the evolution of the structure of the intelligence community, the course examines the concepts and practices used to identify, collect, interpret, analyze, and communicate intelligence that can be used by strategists, policy makers, military, security, and the police to advance homeland security. After learning how the intelligence cycle operates, students will write intelligence reports and participate in simulated intelligence scenarios.

ISS 300 INTELLIGENCE ANALYSIS USING CASE STUDIES (3) This course is designed as a semester-long simulation in which majors participate in every aspect of the intelligence cycle. Students will write numerous intelligence projects culminating in a sample National Intelligence Estimate on a contemporary issue.

ISS 399 INTERNSHIP IN INTELLIGENCE AND SECURITY STUDIES (1-12) *Prerequisites: Sophomores, juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Internships in Intelligence and Security Studies can be with governmental agencies and non-governmental contractors. In some cases, it can also be with private sector companies. The internship should deal mostly with issues of security and /or safety. (See "Internships.")

ISS 400 SENIOR THESIS CAPSTONE (3) *Prerequisite: CRIM 372W, SOCI 277, or STAT 222.* The senior thesis is designed to be a capstone course in which the student, working under the supervision of an Intelligence and Security Studies faculty member, designs and executes a research program in an aspect of Security studies. The course culminates with the writing and presentation of a formal research project or paper.

INTERNATIONAL RELATIONS COURSES (INTL)

INTL 101 GLOBAL POLITICS (3) This is an introduction to the study of international relations in the post-Cold War era. The course's emphasis is on global policy-making regarding select issues of global concern. Special attention is paid to global issues of peace and security, war and terrorism, human rights, and globalization of the international economy, especially as they may affect or be affected by various ethnic groups, gender, economics, and religion. The principle lens we will view global politics through this semester will be the after-effects of colonialism and the effects of globalization in politics.

INTL 213 WORLD REGIONAL GEOGRAPHY (3) This course is a study of the earth in terms of the cultural, environmental, historic, economic, and organizational qualities of its human inhabitants.

- INTL 270 INTERNATIONAL RELATIONS THEORY (3)** This course analyzes the politics among nation-states with particular attention to the political, military, technological, and economic forces at work shaping the post-Cold War world. Students also explore theories of international conflict and cooperation.
- INTL 280 SECURITY STUDIES IN A GLOBAL CONTEXT (3)** This course will focus on readings and practical application of theories in the study of security policy and security theory. It will also explore the structure of the global security complex with an idea towards exposing students to real-life implementation of theory. The class will use case studies in Security, as well as lectures either in class or via Skype from practitioners in the field. Students will work in groups on a real-life case, coming up with a policy proposal white paper.
- INTL 290 INTRODUCTION TO INTERNATIONAL POLITICAL ECONOMY (3)** This course explores the interaction between politics (the state) and economics (business). It will explore topics such as Globalization, development, fiscal policy and trade policy, among others, using current events to illustrate theory.
- INTL 301 HUMAN SECURITY IN THE GLOBAL SOUTH (3)** This course provides an examination of countries in the Global South (in the non-Western World) with a view toward understanding human security as a comprehensive form of security relating to social, political and economic change, including the creation of nationalist sentiments, calls for democracy, improving the conditions of life, and thereby promoting security and stability.
- INTL 320 AFRICAN DIASPORA IN LATIN AMERICA AND THE CARIBBEAN (3)** This course will examine the experience of peoples from the African continent in the Americas. In 1492, Pedro Alonso Niño, a sailor of African descent, piloted one of Columbus' ships. Although Nino did not stay, other peoples of African descent began arriving in the New World with the first settlers, both as servants or enslaved peoples and as free peoples and settlers. The Atlantic slave trade, which started a few after the first arrival of Europeans, brought many hundreds of thousands more people from Africa to the new world as enslaved people. Their descendants make up well over 95% of people living in the Caribbean today and millions more live in South America, Central America and North America. Finally, in recent decades, a smaller but still significant number of African peoples have migrated to the Americas through normal immigration pathways.
- INTL 321W RESEARCH METHODS IN INTERNATIONAL RELATIONS [Writing Enriched] (3)** *Prerequisites: INTL 101 and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course introduces research methods and writing in international relations, covering such concepts as hypothesis, research designs, and techniques of qualitative and quantitative data analysis.
- INTL 377 STUDY ABROAD (1-6)** *Prerequisite: Consent of the instructor.* This course provides students with the opportunity to study principles of international relations in foreign settings.
- INTL 387 DOMESTIC STUDY AWAY (3)** Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.
- INTL 397 INDEPENDENT STUDY IN INTERNATIONAL RELATIONS (1-3)** *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.
- INTL 398 SPECIAL TOPICS IN INTERNATIONAL RELATIONS (1-3) [credit depends on topic]** *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.
- INTL 399 INTERNSHIP IN INTERNATIONAL RELATIONS (1-6)** *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Internships in international relations may be arranged with the U.S. Department of State (either in Washington, D.C. or at a U.S. embassy abroad), with other U.S. Government agencies having an international orientation, certain types of Congressional positions having a foreign policy connection, international agencies (governmental or private), and businesses with significant international operations. (See "Internships.")
- INTL 400W SENIOR THESIS IN INTERNATIONAL RELATIONS [Writing Enriched] (3)** *Prerequisites: INTL 321W and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* The senior thesis is designed to be a capstone course in which the student, working under the supervision of an international relations faculty member, designs and executes a research program in some aspect of international relations. The course culminates with the writing and presentation of a formal research paper.

LATIN COURSES (LATN)

All students entering the 102, 201 and 202 language levels will be required to take a placement test. The results of this test will determine the highest level of the language in which a student may enroll: i.e. 0-49 = LATN 101, 50-79 = LATN 102, 80-100 = LATN 201. Class level placement is also based upon the successful completion of the prerequisite language course at the college level, earned AP credit or by consent of the instructor.

To receive a waiver from LATN 201, and place into LATN 202, a student must score at least 60% on a test comparable to the final examination in Latin 201, Intermediate Latin I, which includes translation of unadapted classical Latin, reading comprehension and grammar, composition, and culture. The examination is proctored at University of Lynchburg and scored by the Latin instructor.

For students whose native language is not English, the foreign language general education requirement may be waived using the substitution waiver form based on documentation of proficiency in the native language provided to the Department of Modern and Classical Languages. In cases in which students are foreign nationals, documentation of their International Student status from a country where English is not the native language is sufficient for the department to waive the foreign language requirement.

LATN 101 ELEMENTARY LATIN I (3) This is the first part of a two-course sequence in basic Latin. The course covers vocabulary and fundamentals of Latin grammar with simple sentence translation and composition, together with aspects of Roman culture, including history and daily life. Also included is the study of Latin as a source of terminology in the liberal arts and sciences. Placement in Latin courses is determined by score range on the Latin Placement Test required of all students wishing to register for Latin at the University of Lynchburg.

LATN 102 ELEMENTARY LATIN II (3) *Prerequisite: LATN 101 or placement test.* This is the second part of a two-course sequence in basic Latin. The course continues the study of vocabulary and Latin grammar from Elementary Latin I, with simple passage translation and composition, together with aspects of Roman culture and history, with emphasis on mythology. Also included is the study of Latin as a source of terminology in the liberal arts and sciences. Placement in this course is determined by score range on the Latin Placement Test required of all students wishing to register for Latin at the University of Lynchburg.

LATN 103 ELEMENTARY LATIN I WITH MEDICAL TERMINOLOGY (3) This is the first part of a two-course sequence in basic Latin. The course covers vocabulary and fundamentals of Latin grammar with simple sentence translation and composition, together with aspects of Roman culture, including history and daily life. Also included is the study of Latin as a source of medical terminology. Placement in Latin courses is determined by score range on the Latin Placement Test required of all students wishing to register for Latin at the University of Lynchburg.

LATN 105 ELEMENTARY LATIN II WITH MEDICAL TERMINOLOGY (3) *Prerequisite: LATN 101 or LATN 103 or placement test.* This is the second part of a two-course sequence in basic Latin. The course continues the study of vocabulary and Latin grammar from Elementary Latin I, with simple passage translation and composition, together with aspects of Roman culture and history, with emphasis on how medicine intersected with mythology, beliefs about causes and cures for disease. Also included is the study of Latin as a source of terminology in the liberal arts and sciences. Placement in this course is determined by score range on the Latin Placement Test required of all students wishing to register for Latin at the University of Lynchburg.

LATN 201W INTERMEDIATE LATIN I [WRITING ENRICHED] (3) *Prerequisite: LATN 102 or placement test. Corequisites or prerequisites: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course provides a continuation of the study of Latin grammar together with intensive reading of classical poetry and prose, set in the context of Roman history and mythology. Selections from major Roman authors are read in tandem with adapted selections from later authors who have contributed to the history of the liberal arts and sciences. This course will bring students to the novice high/intermediate low reading comprehension level (ACTFL Proficiency Guidelines). Placement in this course will be determined by score range on the Latin Placement Test required of all students wishing to register for Latin at the University of Lynchburg.

LATN 202W INTERMEDIATE LATIN II [Writing Enriched] (3) *Prerequisite: LATN 201W, 205W, or placement test. Corequisites or prerequisites: grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* The course focuses on the reading of classical Latin poetry, with attention to comprehension, interpretation, and accurate translation into coherent English, with an introduction to manuscript studies, the contexts in which the classical authors were preserved. This course will bring students to the intermediate mid/high reading comprehension level (ACTFL Proficiency Guidelines). Placement in this course will be determined by score range on the Latin Placement Test required of all students wishing to register for Latin at the University of Lynchburg.

LATN 203 MEDIEVAL LATIN (3) *Prerequisite: LATN 201W or 205W.* This course is designed to provide a recertification credit opportunity for Latin teachers in middle and high schools. It is also open to interested college and university students and faculty. Building on the classical tradition, this course shows how the Latin language and genres of writing such as legends, biographies, letters, and poetry, including drama, were influenced by classical Latin sources during the Middle Ages, following the fall of Rome in 476 CE. Thus the course provides continuity from the study of ancient Roman culture, prose, and poetry, which spread throughout the empire, was preserved in manuscripts and printed books, and developed in new forms.

LATN 205W INTERMEDIATE LATIN I - MEDICAL [Writing Enriched] (3) *Prerequisite: LATN 102 or placement test. Corequisite or prerequisite: ENGL 123W, HONR 103W, or equivalent.* This special section of Intermediate Latin focuses on medical and health-related terminology, contexts, and situations. The course offers practice of the same grammatical concepts and linguistic functions as in all other sections of Intermediate Latin, but the vocabulary and readings are taken from sources for an introduction to the history of medicine from which terms in present-day use developed. Readings include primary sources in Latin from anatomy and physiology, diseases and their treatments, and pharmacology. In this course, students planning for careers in health sciences should be better able to use and comprehend technical terms, many of which derive from Latin. This course will bring students to the novice high/intermediate low reading comprehension level (ACTFL Proficiency Guidelines). Students can receive credit for LATN 201 or LATN 205, but not both.

LATN 208W CLASSICAL LATIN LITERATURE IN ENGLISH TRANSLATION [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course focuses on selected works from classical Latin literature, from the Early Republic to the High Empire of Rome, c. 240 B.C. - 200 A.D. Genres include epic, comedy and tragedy, lyric, elegiac and pastoral poetry, history, biography, orations, and letters.

LATN 377 STUDY ABROAD (1-6) *Prerequisite: Consent of instructor.* This course involves intensive Latin instruction with grammar instruction, reading comprehension, and translation, background pertaining to the region where the travel takes place, plus site visits related to texts read will take place.

LATN 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

LATN 397 INDEPENDENT STUDY IN LATIN (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

LATN 398 SPECIAL TOPICS IN LATIN (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

LATN 399 INTERNSHIP IN LATIN (1-3) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Students may earn college credit for participation in an internship that requires familiarity with terminology from Latin, such as medical facilities, health, law offices, courts, schools, or organizations where terms from the Latin language are a regular part of the vocabulary. Jointly supervised by the program and the responsible organization administrator, the internship is expected to provide the student with the opportunity to apply, in a practical way, some of the language skills acquired in the study of Latin. (See "Internships.")

LIBERAL ARTS STUDIES COURSES (LIBS)

LIBS 321W RESEARCH AND WRITING: LIBERAL ARTS STUDIES [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course provides an introduction to research and writing across disciplines in the Liberal Arts, covering concepts such as hypothesis, literature review, and research design including critical analyses.

LIBS 400W LIBERAL ARTS STUDIES CAPSTONE PROJECT [Writing Enriched] (3) *Prerequisites: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent., and LIBS 321W.* The student, working under the supervision of a committee composed of the major supervisor, and at least 2 faculty members from 2 existing departments, will execute a research project. The capstone culminates with writing (synthesis and analyses) and presentation of either 3 short papers or one formal research paper as decided by the committee.

LIVING WELL COURSES (LVWL)

LVWL 100 21ST CENTURY WELLNESS (2) This course is designed to assist students in establishing the basis for a healthy lifestyle by addressing multiple dimensions of wellness: including cultural, emotional, environmental, financial, intellectual, interpersonal, occupational, physical, and spiritual. Students will self-assess wellness by differentiating healthy behaviors from those that place individuals at risk and use sources/research to learn strategies to obtain lifelong wellness.

MANAGEMENT COURSES (MGMT)

MGMT 260 PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3) This course studies the common activities of managers and includes planning, problem solving, organizational theory and application, direction of personnel utilizing organizational behavior theories, and control principles and their application.

MGMT 262 HUMAN RESOURCE MANAGEMENT (3) This introduction to human resource management includes human resource planning, workforce planning, employment law, recruiting and hiring personnel, training and developing employees, motivating and compensating employees, and evaluating and rewarding employees.

MGMT 303 INTERNATIONAL MANAGEMENT AND NEGOTIATIONS (3) *Prerequisite: MGMT 260.* This course provides students with the analytical and practical foundations and strategies needed to manage in diverse and multinational environments. The student's "cultural intelligence" will be honed through the exploration of similarities and differences among organizations in varied cultural and relationship contexts, including the negotiation context. This course change more fully integrates organizational change management into this course and the human resource management curriculum.

MGMT 310 MANAGEMENT INFORMATION SYSTEMS (3) *Prerequisite: MGMT 260.* This course examines information systems from a management perspective and surveys key topics of information systems including: computer software, hardware, communications, examples of applications, and information systems planning.

MGMT 321 TRAINING, DEVELOPMENT, AND CHANGE (3) This course is designed to focus on critical issues within the field of training, development, and change management. First, students in this course will learn how to design, implement, and evaluate effective training programs. In the second half of the course, students will study the organizational change management process.

MGMT 344 OPERATIONS MANAGEMENT (3) *Prerequisite: BUAD 241.* This course introduces production and operations functions in business. Topics include forecasting, plant location, transportation models, inventory models, scheduling techniques, just-in-time, and other application uses for quantitative methodology.

MGMT 360 PROJECT MANAGEMENT (3) This course introduces established norms, methods, processes, and practices in project management. Students learn to plan a project, create a project schedule, assign resources and costs, track projects, and share information across projects, applications, and the World Wide Web.

MGMT 364 WORKFORCE PLANNING, STAFFING, AND COMPENSATION (3) This course underscores the strategic nature of human resource management in planning, staffing, and compensation. It examines how organizations plan for workforce and hiring needs, and design and implement compensation policies and protocols.

MGMT 377 STUDY ABROAD: INTERNATIONAL MANAGEMENT (3) *Prerequisite: MGMT 260.* This course offers students the opportunity to study management challenges associated with business activity in foreign settings. It aims to provide students with knowledge, understanding, and skills that will help them manage more effectively in an international environment.

MGMT 398 SPECIAL TOPICS IN MANAGEMENT (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

MGMT 399 INTERNSHIP IN MANAGEMENT (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Internships are offered in cooperation with a member of the management faculty who is responsible for holding a weekly class meeting and assigning the final course grade. Student interns may or may not be paid for their work. (See "Internships.")

MGMT 477 MANAGEMENT CONSULTING (3) *Prerequisites: MGMT 344, 260, MKTG 209.* This course is for business majors who are interested in understanding management consulting as a profession and industry, the consulting process, and the tools and techniques that can be used to help organizations improve performance and become more effective. Students will learn the fundamentals of consulting practice, including diagnosing situations, planning and executing assignments, client management, common mistakes, and ethical issues in consulting. A variety of diagnostic and problem-solving methodologies will be applied.

MARKETING COURSES (MKTG)

MKTG 101 FRESHMAN SEMINAR IN MARKETING (3) This theme-based course gives students exposure to marketing early in their college career. Designed around the interests of the instructor, the course will provide students with the opportunity to use marketing principles to explore an issue from multiple perspectives. Through in-depth study of a specific topic (e.g., social media marketing, consumer privacy rights, cross-cultural branding, and videogame marketing), students will be introduced to basic marketing concepts as they develop their critical thinking and communication skills.

MKTG 200 SOCIAL MEDIA MARKETING (3) This interactive course will focus on how to design, strategize, implement and evaluate a digital marketing strategy for small and mid-size organizations. An understanding of the opportunities and challenges of the Digital Media Revolution will be developed through readings, case studies, and hands-on activities. Students will learn how to use and optimize basic social media tools [Blogs, Facebook, Twitter, YouTube, and LinkedIn] with traditional marketing efforts. Teams will launch a Digital Marketing Strategy.

MKTG 209 PRINCIPLES OF MARKETING (3) This course provides a comprehensive study of the structure and function of marketing systems in the firm, the economy, and society. The course develops the analysis of target markets, the assessment of the firm's external environments, and the management of

marketing practices both domestically and internationally.

MKTG 371 MARKETING ANALYTICS (3) *Prerequisites: BUAD 241, MKTG 209.* This course focuses on the collection and use of market data for directing marketing decisions and actions. Qualitative and quantitative data are used to construct marketing dashboard indicators, to signal when actions are required, and to effectively construct attractive marketing mixes and brand programs.

MKTG 372 SALES AND SALES MANAGEMENT (3) *Prerequisite: MKTG 209.* This course examines direct sales environments with an emphasis on industrial goods selling. Students develop personal selling skills in concert with an understanding of buyer needs and requirements as expressed in the buying motion. Other topics include sales strategy development, organizational design, performance evaluation, compensation, and territory administration.

MKTG 374 RETAILING AND MERCHANDISING (3) *Prerequisite: MKTG 209.* The retail industry continuously evolves. This course delves into key strategic issues, with a focus on financial considerations and merchandise and store management implementation, reflecting market-leading practices. Through case studies and other means, students explore how retailers of all sizes navigate challenges such as leveraging big data, harnessing social media and mobile channels, delivering seamless multi-channel experiences, prioritizing conscious marketing, and adapting to the impact of globalization.

MKTG 375W CONSUMER AND BUYER BEHAVIOR [Writing Enriched] (3) *Prerequisites: MKTG 209 and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course is an interdisciplinary approach to the analysis and application of psychological, social, and cultural influences on the behavior of consumers and organizational buyers. The interrelationships of marketing actions and buyer behavior are analyzed with the goal of making effective marketing decisions.

MKTG 377 STUDY ABROAD (3) *Prerequisite: MKTG 209.* This course focuses on marketing challenges associated with business activity across national boundaries. It aims to provide students with the knowledge, understanding, and skills that will help them market more effectively in an international environment. Included in this course is a field study experience in a foreign country.

MKTG 379 MARKETING COMMUNICATIONS (3) *Prerequisite: MKTG 209.* This course is an intensive examination of the roles of advertising, personal selling, sales promotion, and public relations in product or service marketing efforts. Topics include theme selection, copy and artwork preparation, media selection, performance analysis, budgeting, and other areas relevant to promotion.

MKTG 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

MKTG 397 INDEPENDENT STUDY IN MARKETING (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

MKTG 398 SPECIAL TOPICS IN MARKETING (1-3) [credit depends on topic] *Prerequisites: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

MKTG 399 INTERNSHIP IN MARKETING (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration.* Internships are offered in cooperation with a member of the marketing faculty who is responsible for holding a weekly class meeting and assigning the final course grade. Student interns may or may not be paid for their work. (See "Internships.")

MKTG 425 INTERACTIVE MARKETING (3) *Prerequisite: MKTG 209.* This course is designed to give students a hands-on experience in interactive marketing and social media through the development and implementation of a WordPress site. During the course students will learn the fundamentals of persuasive communication theory and garner an understanding of database driven web site/ blog site design. Topics covered include: visual communication techniques as well as WordPress theme design, HTML, CSS, PHP and SQL. Students will learn to implement the programs needed to develop these tools (Image editor, Text editor, FTP transfer program). To demonstrate their proficiency in these areas students will develop a personal promotional site.

MKTG 451 MARKETING MANAGEMENT (3) *Prerequisites: MKTG 371, 375W.* This course focuses on the application of problem-solving in the area of marketing management. Emphasis is placed upon the analysis of markets, planning the marketing effort, management of the marketing organization, and control of marketing operations. This course is taught using the case method and/or computer simulation.

MATHEMATICS COURSES (MATH)

MATH 102 PRECALCULUS (3) This course includes the study of a variety of functions and their graphs and transformations, including linear, quadratic, rational, polynomial, logarithmic, exponential and trigonometric functions. The study of trigonometry will include both the right triangle and the unit circle approach. The course is intended to strengthen the algebra and trigonometry skills required for the study of calculus.

MATH 103 CALCULUS I (3) This course introduces the student to elementary differential calculus with applications. It includes the study of a variety of functions and their graphs, limits, rates of change, the derivative and its applications. Specific topics include but are not limited to: calculating limits graphically, numerically, and algebraically; calculating the derivative using the limit definition; calculating derivatives of elementary functions and their sums, difference, products and quotients; interpreting graphs of derivatives; solving application problems involving rates of change and optimization.

MATH 104 CALCULUS II (3) *Prerequisite: MATH 103.* Differential and integral calculus of single variable transcendental functions, methods of integration, and applications are studied.

MATH 106 LIBERAL ARTS MATHEMATICS (3) This course introduces the student to the language and modeling capabilities of mathematics by providing a broad overview of several different fields of mathematics. Topics may include but are not limited to: logic, linear algebra, probability, statistics, the mathematics of finance, and special topics. The goal is the development of an appreciation of the relevance of elementary mathematics in our daily lives, as well as the acquisition of analytical, qualitative, and quantitative problem solving and reasoning skills.

MATH 117 INTRODUCTION TO SCHOOL MATHEMATICS I (3) This course covers key topics in school mathematics including an introduction to

the central concepts of pre-secondary mathematics and the National Council of Teachers of Mathematics (NCTM) recommended standards. Topics include problem-solving methodologies, sets, elementary number theory, arithmetic of the whole and rational number systems. This course may not be used to satisfy any of the requirements for the mathematics minor or major.

MATH 118 INTRODUCTION TO SCHOOL MATHEMATICS II (3) This is a continuation of MATH 117 and covers the basic concepts and operations of real numbers as well as various selected topics in mathematics from the recommended Standards of the National Council of Teachers of Mathematics (NCTM) and the PRAXIS exam. Topics include number theory, geometry and measurement, probability, and statistics. This course may not be used to satisfy any of the requirements for the mathematics minor or major.

MATH 121 PRECALCULUS: ALGEBRA, TRIGONOMETRY AND FUNCTIONS (4) This course includes the study of analytic geometry and a variety of functions and their graphs, including linear, quadratic, rational, polynomial, logarithmic, exponential and trigonometric functions. The study of trigonometry will include both the right triangle and the unit circle approach. The course is intended to strengthen the algebra and trigonometry skills required for the study of calculus. This course is for Central Virginia Governor's School students only.

MATH 122 DIFFERENTIAL CALCULUS FOR SCIENTISTS AND ENGINEERS (4) *Prerequisite: MATH 121.* This course introduces the student to elementary differential calculus with applications. It includes the study of a variety of functions and their graphs, limits, rates of change, the derivative and its applications and an introduction to integration. Specific topics include but are not limited to: calculating limits graphically, numerically, and algebraically; calculating the derivative using the limit definition; calculating derivatives of elementary functions and their sums, difference, products and quotients; interpreting graphs of derivatives; solving application problems involving rates of change, optimization, finding antiderivatives and Riemann sums. This course is for Central Virginia Governor's School students only.

MATH 123 INTEGRAL CALCULUS FOR SCIENTISTS AND ENGINEERS (4) *Prerequisites: MATH 122.* This second course in calculus will cover integral calculus of single variable including the Fundamental Theorem of calculus, techniques of integration, introduction to transcendental functions, applications and differentiation and integration of inverse trigonometric, exponential and logarithmic functions. This course is for Central Virginia Governor's School students only.

MATH 211 CALCULUS III (3) *Prerequisite: MATH 104.* Polar coordinates, infinite series and sequences, multivariable calculus, partial differentiation, multiple integration, three-dimensional analytic geometry and applications are studied.

MATH 224 MULTIVARIATE CALCULUS FOR SCIENTISTS AND ENGINEERS (4) *Prerequisite: MATH 123.* Infinite series and sequences, multivariable calculus, partial differentiation, multiple integration, three-dimensional analytic geometry, vectors, vector-values functions and applications are studied. This course is for Central Virginia Governor's School students only.

MATH 231 THE MATHEMATICS OF COMPUTER SCIENCE (3) This course introduces the theoretical and mathematical foundations of computer science. Topics include sets, summations and limits, number systems, mathematical induction, logic and Boolean algebra, probability and statistics, automata and grammars, combinatorics, and graph theory.

MATH 260W MATHEMATICAL REASONING AND PROOF [Writing Enriched] (3) *Prerequisites: MATH 103 and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course is an introduction to mathematical reasoning as exemplified in the proof methodology inherent to formal mathematics. This course will include a formal study of logic and the different methods of proof and then use examples from various branches of mathematics to illustrate these ideas. Fields from which the examples will be taken include, but are not limited to, set theory, cardinality, relations and order, functions, elementary group theory, and combinatorics.

MATH 301 DIFFERENTIAL EQUATIONS (3) *Prerequisite: MATH 104.* This course focuses on existence and uniqueness theorems; first order equations; linear, homogeneous, and non-linear equations; transform methods; numerical methods; and series solutions.

MATH 304 COLLEGE GEOMETRY (3) *Prerequisite: MATH 104.* This course covers the important aspects of Euclidean Geometry including topics involving angles, triangles, parallel and perpendicular lines, circles, polygons, similarity, areas, volumes, as well as various selected topics in mathematics from the recommended Standards of the National Council of Teachers of Mathematics (NCTM) and the PRAXIS II exam. It is also intended to give students further exposure to the art of formal proof writing in a setting where many steps of the proof can be displayed and explained visually.

MATH 307 LINEAR ALGEBRA (3) *Strongly recommended: MATH 260W.* This course provides a study of linear transformations over vector spaces covering vectors, vector spaces, matrices, determinants, systems of linear equations, and linear transformations.

MATH 310W HISTORY OF MATHEMATICS [Writing Enriched] (3) *Prerequisite: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent; corequisite: MATH 260W.* This course will introduce students to mathematics from a historical perspective. Course topics will include number theory, algebra, geometry and calculus.

MATH 311 PROBABILITY THEORY (3) *Prerequisite: MATH 104.* This course introduces mathematical probability theory using an axiomatic approach and considering numerous applications.

MATH 313 COMPLEX VARIABLES (3) *Prerequisite: MATH 104.* This course examines properties of complex numbers; elementary functions of a complex variable; complex derivatives and analytic functions; mappings; definite and indefinite integrals; Cauchy's theorem and integral formulas; Taylor and Laurent expansions; singular points and the residue theorem; conformal mapping with applications.

MATH 323 NUMBER THEORY (3) *Prerequisite: MATH 260W.* This course deals with the properties of the set of integers. Topics considered include divisibility and division algorithm, congruences, quadratic residues, recurrence functions, diophantine equations, and continued fractions.

MATH 328 VECTOR ANALYSIS (3) *Prerequisite: MATH 104.* This course includes vector algebra; vector geometry; vector functions; vector calculus: derivatives, gradient, curl, divergence, and Laplacian operators; line and surface integrals; Stokes' and Gauss' theorems; applications to physics; generalized coordinates; linear vector spaces.

MATH 330 DISCRETE MATHEMATICS (3) *Prerequisite: MATH 260W.* This course studies discrete structures that arise in mathematics, computer science, business and other areas of application. Topics covered may include, but are not limited to, the theory of counting, graph theory, enumeration, finite-state automata and formal languages

MATH 350W EXPERIMENTAL MATHEMATICS [Writing Enriched] (3) *Prerequisites: CS 131 or programming ability, grade of C- or higher in ENGL 123W, HONR 103W, or equivalent, and consent of the instructor.* This course will introduce students to the fine art of problem solving. The focus is on using computers, models, and examples to investigate problems rather than formal rigid processes to uncover a solution. Selected topics will include, but are not limited to, number theory, probability, mathematical modeling, graph theory, fractals, real analysis, and open math problems. This course will fulfill a math elective requirement.

MATH 376 STOCHASTIC CALCULUS WITH APPLICATIONS (3) *Prerequisites: MATH 311, STAT 333.* Topics may include but are not limited to: probability, stochastic processes, martingales, stochastic integrals, and stochastic differential equations. The course will concentrate on how these fields of mathematics apply to topics in risk management and finance.

MATH 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

MATH 397 INDEPENDENT STUDY IN MATHEMATICS (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

MATH 398 SPECIAL TOPICS IN MATHEMATICS (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

MATH 399 INTERNSHIP IN MATHEMATICS (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator; and supervising faculty prior to registration.* Students may earn college credit for participation in an internship with a business firm or agency, jointly supervised by the program and the responsible organization administrator. The internship is expected to provide the student with an opportunity to apply, in a practical way, some of the mathematical skills acquired. (See "Internships.")

MATH 405-406 ABSTRACT ALGEBRA (3, 3) *Prerequisite: MATH 260W.* Three hours lecture each semester. This course sequence introduces students to algebraic concepts such as groups, rings, integral domains, and fields. The elementary number systems occupies a central place. Mappings, especially homomorphisms, are introduced fairly early and emphasized throughout.

MATH 407 ADVANCED CALCULUS (3) *Prerequisite: MATH 260W.* Three hours lecture. This course introduces students to the foundations of analysis including a study of limits and continuity, functions of several variables, and finite and infinite series.

MATH 451W SENIOR RESEARCH [Writing Enriched] (3) *Prerequisites: Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent, senior standing, and at least three mathematics courses numbered 300 or higher.* This course serves as a capstone for those students with a major in mathematics. The student will do directed intensive studies of several mathematical topics. These projects will involve a synthesis of available material on the topic including (but not limited to): previous coursework, traditional books, journal articles, and web-based materials. The student must write a research paper on each topic and present their work to the class.

MEDICAL HUMANITIES COURSES (MEHU)

MEHU 201 NARRATIVE HEALTH (3) Narrative Health is a course designed to explore narratives in the discourse of health, illness, patient experience, and death in order to help understand the complexity of illness, suffering, disability, and treatment or the inability to treat suffering. Through close reading, students will engage narratives, especially works of creative nonfiction grounded in illness. Other genres, such as poetry, may also be explored. Students will create several pieces of creative writing dealing with and/or responding to illness, suffering, disability, and/or treatment or the inability to treat suffering.

MUSIC COURSES (MUSC)

APPLIED MUSIC

Private instruction in applied music is available to all students. All work is adapted to the ability and needs of the individual student. An extra, non-refundable fee is required. For music majors whose applied lessons are in the area of their projected senior project, e.g., voice lessons toward a senior voice recital, the University will waive the lesson fee. Students will be required to purchase musical scores as needed for works to be performed. There may be exceptions when assigned works are in the public domain. Private lessons are courses that may be required of students to meet proficiency standards. Lessons begin in the second complete week of classes each semester. Normally, students will receive one lesson each week for thirteen weeks each semester. Private lessons are listed as "TBA" by the Office of the Registrar. The student will arrange his/her lesson time. There is no overload fee for any of the applied music courses (001-010).

MUSC 001 Piano (.5 or 1)

MUSC 002 Organ (.5 or 1)

The beginning student in organ must display technical proficiency at the piano to the satisfaction of the instructor.

MUSC 003 Voice (.5 or 1)

MUSC 004 Woodwinds (.5 or 1)

MUSC 005 Brass (.5 or 1)

MUSC 006 Percussion (.5 or 1)

MUSC 007 Strings (.5 or 1)

MUSC 008 Composition (.5 or 1)

MUSC 010 Guitar (.5 or 1)

APPLIED MUSIC FOR THE JUNIOR RECITAL

Private instruction in applied music in preparation for the Junior Recital is available to Music Majors with a Performance Emphasis (Instrumental or Vocal) who have achieved Junior standing in their applied major instrument/voice. All other students must seek permission of the Music Department Chair. All work is adapted to the ability and needs of the individual student. For music majors whose applied lessons are in the area of their projected senior project, e.g., voice lessons toward a senior voice recital, the University will waive the lesson fee. Students will be required to purchase musical scores as needed for works to be performed. There may be exceptions when assigned works are in the public domain. Lessons begin in the second complete week of classes each semester. Normally, students will receive one lesson each week for thirteen weeks each semester. Private lessons are listed as "TBA" by the Office of the Registrar. The student will arrange his/her lesson

time. There is no overload fee for any of the applied music courses (001-010, 061-070, 081-090).

- MUSC 061 Piano (1)
- MUSC 062 Organ (1)
- MUSC 063 Voice (1)
- MUSC 064 Woodwinds (1)
- MUSC 065 Brass (1)
- MUSC 066 Percussion (1)
- MUSC 067 Strings (1)
- MUSC 070 Guitar (1)

APPLIED MUSIC FOR THE SENIOR RECITAL

Private instruction in applied music for preparation for the Senior Recital is available to Music and Music Education Majors who have achieved Senior standing in their applied major instrument/voice. All other students must seek permission of the Music Department Chair. All work is adapted to the ability and needs of the individual student. An extra, non-refundable fee is required. For music and music education majors, the University will waive the lesson fee. Students will be required to purchase musical scores as needed for works to be performed. There may be exceptions when assigned works are in the public domain. Lessons begin in the second complete week of classes each semester. Normally, students will receive one lesson each week for thirteen weeks each semester. Private lessons are listed as "TBA" by the Office of the Registrar. The student will arrange his/her lesson time. There is no overload fee for any of the applied music courses (001-010, 061-070, 081-090)

- MUSC 081 Piano (1)
- MUSC 082 Organ (1)
- MUSC 083 Voice (1)
- MUSC 084 Woodwinds (1)
- MUSC 085 Brass (1)
- MUSC 086 Percussion (1)
- MUSC 087 Strings (1)
- MUSC 090 Guitar (1)

MUSIC ENSEMBLES

University music ensembles are available to all students. Overload fees, if applicable, are waived by the University for any ensemble participation.

MUSC 016 PERCUSSION ENSEMBLE (1) *Corequisite: MUSC 021.* The purpose of this organization is to develop ensemble techniques by studying and performing both standard and contemporary percussion literature. The ensemble is open to all students and faculty/staff members of University of Lynchburg as well as interested community members. University of Lynchburg students are required to co-enroll in MUSC 021. An audition is required. Repeatable for credit.

MUSC 017 BRASS ENSEMBLE (1) *Corequisite: MUSC 021.* The purpose of this organization is to develop ensemble techniques by studying and performing both standard and contemporary brass literature. The ensemble is open to all students and faculty/staff members of University of Lynchburg as well as interested community members. University of Lynchburg students are required to co-enroll in MUSC 021. An audition is required. Repeatable for credit.

MUSC 018 ORCHESTRA (1) The purpose of this organization is to develop ensemble techniques, music reading ability, and general musicianship and to acquaint students with a wide variety of orchestra music. For music majors who will become teachers, the Orchestra will provide experience in organization, music selection, and program planning. The Orchestra performs numerous times a semester on campus and within the Central Virginia area. Open to all students by audition.

MUSC 019 CHAMBER MUSIC ENSEMBLE (1) This is an opportunity to be involved with the smaller, more intimate forms of music called chamber music. Instrumentalists and vocalists may create their own ensembles, which may include duo-piano or accompanying, but must meet two hours a week with music faculty supervision. Singers must have an ensemble with two or more instruments. Involvement must include a public performance each semester and, if one ensemble member is a music major, an appearance before the music faculty at the end of the semester.

MUSC 020 JAZZ ENSEMBLE (1) *Corequisite: MUSC 021.* An eighteen-piece ensemble comprised of saxophones, brass, percussion, and guitars. Membership is selected from the Wind Ensemble and/or by audition for interested students, faculty and staff members, alumni, and community musicians. University of Lynchburg students are required to co-enroll in MUSC 021.

MUSC 021 WIND SYMPHONY (1) The purpose of this organization is to develop ensemble techniques, music reading ability, and general musicianship and to acquaint students with a wide variety of band music. For music majors who will become teachers, the Wind Ensemble will provide experience in organization, music selection, and program planning. The Wind Ensemble performs numerous times a semester on campus and within the Central Virginia area. Open to all students by audition.

MUSC 022 CONCERT CHOIR (1) The purpose of this ensemble is to rehearse and perform choral music from all major periods of choral literature, to learn some basic rudiments of singing and diction, and to develop general musicianship. The Concert Choir performs on campus and represents the University in concerts from New England to Florida. Open to all students by audition.

MUSC 023 HANDBELL CHOIR (1) The purpose of this ensemble is to rehearse and perform handbell music. The handbell choir presents concerts on campus and Christmas and in the spring. Open to all students. Basic music reading skills are required.

MUSC 024 CHAMBER CHOIR (1) *Prerequisite: Permission of the instructor.* Chamber Choir is a small, auditioned choral ensemble. The purpose of this ensemble is to rehearse and perform music written for small choral and chamber ensembles. Music will be selected from all major periods of music from the Medieval Age through the twenty-first century. Membership is open to University of Lynchburg students by audition only.

MUSC 025 CHORAL UNION (1) The Choral Union is a non-auditioned large choral ensemble. The purpose of this choir is to provide a quality choral music experience for all its members. Membership is open to all students and faculty/staff members of University of Lynchburg as well as interested community members. Since this choir is an open-membership choir for singers with various levels of musical skills, members will have ample opportunity to develop concepts of proper singing, including proper breathing, placement, intonation, balance, blending, and interpretation, while experiencing a wide variety of musical styles from the Medieval Age to the twentieth-century with an emphasis on major choral/orchestral works.

MUSC 026 COMMUNITY BIG BAND (1) *Prerequisite: Successful audition. Corequisite: MUSC 020.* The University of Lynchburg Community Big Band

is an ensemble for students, faculty, and community members. The purpose of this organization is to develop ensemble techniques by studying and performing both standard and contemporary Big Band and Jazz literature. An audition is required. Repeatable for credit.

MUSC 027 OPERA WORKSHOP (1) *Prerequisite: Permission of the instructor.* Opera Workshop is a selected vocal ensemble designed to provide students with an opportunity to rehearse and perform selected opera literature from both the past and the present. Through both individual and ensemble performing opportunities, students will develop concepts and skills of good singing. Open to all students by audition. Repeatable for credit.

GENERAL MUSIC COURSES

MUSC 100 MUSIC APPRECIATION (3) This course is an introductory study of Western Art Music. Various elements, forms, and styles will be taught through listening; viewing videos; and attending and reviewing live University of Lynchburg concerts. Students will discuss the great music of the Middle Ages, Renaissance, Baroque, Classical, Romantic, and Modern Periods. In addition, this course is one of the DELL program's Artistic and Creative Thinking Area of Study courses. As a result, additional focus is placed on how people use their creativity and imagination as a form of human expression and how the arts awaken and stimulate emotions, thoughts, beliefs, and actions. Group project required. Attendance at four outside-of-class performances required.

MUSC 102 WORLD MUSIC AND CULTURE (3) This introductory course on non-Western music explores the relationship of music of various cultures to events important to those cultures. This course meets the requirements of the DELL General Education Program in the Artistic and Creative Thinking Area of Study. Attendance at four outside-of-class performances required.

MUSC 103 MUSIC FUNDAMENTALS (3) This course is designed for students with limited or no skills in the fundamentals of music theory. Topics include pitch and rhythm notation, time classification, note and rest values, time signatures, intervals, major and minor scales, key signatures, and triads.

MUSC 104 INTRODUCTION TO MUSIC THEORY AND AURAL SKILLS (3) *Corequisite for music and music education majors: MUSC 108.* This study of the fundamentals in tonal music includes notation, scales, rhythms, intervals, chords, figured bass, and melody writing. This course also includes an introduction to basic aural skills. MUSC 104 is offered each fall semester. MUSC 104 may be waived by departmental placement exam.

MUSC 105 DIATONIC HARMONY (3) *Prerequisite: MUSC 104. Corequisite for music and music education majors: MUSC 107 and 109.* This study of diatonic harmonic practices in tonal music includes figured bass and lead-sheet notation, cadences, non-harmonic tones, harmonic progression, phrases, modulation, and small forms. MUSC 105 is offered each spring semester.

MUSC 107 INTERMEDIATE AURAL SKILLS (1) *Corequisite or prerequisite: MUSC 105 or its equivalent. Corequisite for music and music education majors: MUSC 109 or its equivalent.* This laboratory course is designed to increase skills in aural perception of music. Students develop skills in singing from notation and in notating music that they hear. Offered each spring semester.

MUSC 108-109 PIANO CLASS I, II (1, 1) *Corequisite for MUSC 108: MUSC 104. Corequisite for MUSC 109: MUSC 105.* This laboratory course provides application of the principles of elementary theory to the keyboard. Students learn to play the major and minor scales, along with various harmonic formulae, and learn to improvise accompaniments to simple melodies. These courses must be taken in sequence. MUSC 108 is offered each fall semester and MUSC 109 is offered each spring semester. Successful completion of the Piano Proficiency Exam may substitute for these courses. Music majors must include MUSC 104-105 and MUSC 108-109 as corequisite requirements.

MUSC 111 MUSIC TECHNOLOGY (1) *Prerequisite: must be able to read music.* The purpose of this course is to provide a hands-on study of current technologies used in the elementary and secondary classroom as well as by performing musicians. Topics include office/music software, video/audio digital recording and editing, and music notation software including, but not limited to Sibelius and Finale. An introduction to U. S. copyright law as it applies to musicians is also covered in this course. Personal computer and lab fee required.

MUSC 204 CHROMATIC HARMONY AND COMMERCIAL MUSIC (3) *Prerequisite: MUSC 105. Corequisite for music and music education majors: MUSC 206.* This course is a continuation and elaboration of tonal harmony as begun in MUSC 104-105 with in-depth study of eighteenth-century counterpoint, chromatic and extended harmony, and commercial music. MUSC 204 is offered each fall semester. Personal computer and lab fee required.

MUSC 206-207 ADVANCED AURAL SKILLS I, II (1, 1) *Corequisite for MUSC 206: MUSC 204 or its equivalent. Corequisite for MUSC 207: MUSC 210W.* This laboratory course sequence is a continuation of MUSC 107. These courses must be taken in sequence. MUSC 206 is offered each fall semester and MUSC 207 is offered each spring semester.

MUSC 210W FORM AND POST-TONAL ANALYSIS [Writing Enriched] (3) *Prerequisites: MUSC 204 and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent.* This course is a study of the structure of musical composition from the basic components to large composite units and an introduction to music and theory of the twentieth century.

MUSC 215 JAZZ AND THE ORIGINS OF ROCK MUSIC (3) This course will examine the history of jazz and rock music. A thorough examination of the musical elements of the genres will be accompanied by study of the social/cultural contexts that contribute to the artistic developments of jazz and rock music. Students will be required to attend two live performances presented by the University of Lynchburg music department. In addition, this course is one of the DELL program's Artistic and Creative Thinking Area of Study courses. As a result, additional focus is placed on how people use their creativity and imagination as a form of human expression and how the arts awaken and stimulate emotions, thoughts, beliefs, and actions. Personal computer and group project required. Attendance at four outside-of-class performances required.

MUSC 249 REHEARSING FROM THE PODIUM (3) *Prerequisite: Music or Music Education major or permission of instructor.* This course includes a study of techniques of instrumental and choral conducting as well as practical experience in conducting ensembles. Lab fee required. Attendance at three outside-of-class instrumental/choral rehearsals required.

MUSC 261 LITERATURE OF MUSICAL THEATRE (3) Literature of Musical Theatre will explore the canon of musical theatre repertoire. Students will investigate and identify the vocal and performance demands of specific musicals through the lens of a director and a performer, including the process of staging, planning rehearsals, and vocal coaching. Lab fee, personal computer and group projects required. Vocal coaching outside of class required.

MUSC 263 CURRICULUM AND ASSESSMENT IN MUSIC (3) *Prerequisite: MUSC 163.* A study of curriculum and assessment methods applicable to music education settings including principles and techniques of teaching music in the secondary school. Offers observation, demonstration, and individual guidance in the areas of vocal, instrumental, and general music.

MUSC 264 FIELD EXPERIENCE SECONDARY (LAB)-MUSIC IN SECONDARY EDUCATION (2) *Prerequisite:* MUSC 263. This lab experience is designed to provide opportunities for application of pedagogical theories and techniques in the music classrooms in high school and middle school. Bi-weekly observation in area secondary school classrooms required. Students are responsible for their transportation to and from field experience sites.

MUSC 302W-303 MUSIC HISTORY AND LITERATURE I [Writing Enriched], II (3, 3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This survey of music literature acquaints the student with the musical styles of important periods and with the composers from the age of plainsong to the present.

MUSC 399 INTERNSHIP IN MUSIC (1-12) *Prerequisites:* Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, and supervising faculty prior to registration. This course is a practical application of music in the professional world. Possible areas include music management, music merchandising, church music, music in the theatre, and music in some private educational settings. (See "Internship.")

MUSC 402W SENIOR SEMINAR IN MUSIC PERFORMANCE [Writing Enriched] (2) *Prerequisites:* MUSC 210W and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. Students in this course will produce a written, researched document in conjunction with either (1) a senior, lecture, or composition recital or (2) a musical, theoretical, and historical analysis of selected works. For music majors with a performance emphasis and music education majors, the document will focus on the music to be performed on the senior recital. For music majors with a liberal arts emphasis, the document will focus on either (1) music to be performed in a senior, lecture, or composition recital or (2) music selected with approval of the instructor for musical, theoretical, and historical analysis. This course involves a substantial amount of oral presentation by students. For music majors with a performance emphasis and music education majors, this course culminates with the performance of a senior recital. For music majors with a liberal arts emphasis, this course culminates with the presentation of either a senior recital or presentation of the musical, theoretical, and historical analysis.

NURSING COURSES (NRSRG)

NRSRG 101 INTRODUCTION TO PROFESSIONAL NURSING (1) This course focuses on entry into the nursing major and introduces the students to the knowledge, skills, and attitudes necessary to be successful in the nursing curriculum. Emphasis is placed on concepts that are relevant to the evolving healthcare system, the nursing profession, and expectations of the profession.

NRSRG 300 NURSING PHARMACOLOGY (2) *Prerequisites:* First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, CHEM 127, PBHL 270, 275, PSYC 241, STAT 222 (C or better for all). Nursing Pharmacology provides nursing theory used in the study of pharmacology. The course introduces foundational concepts related to pharmacotherapeutics that are applied in all nursing courses. The course connects nursing theory, pathophysiology, and foundational knowledge for safe pharmacological care to diverse patients across the lifespan.

NRSRG 306 FOUNDATIONS OF NURSING (3) *Prerequisites:* First 2 years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, PSYC 241, STAT 222 (C or better for all). *Corequisite:* NRSRG 306L. Foundations of Nursing introduces basic concepts necessary for safe, patient-centered nursing care for patients with well-defined healthcare concerns. Nursing content and theory are acquired and applied in the classroom for application to patient care in various healthcare settings.

NRSRG 306L FOUNDATIONS OF NURSING LAB (3) *Prerequisites:* First 2 years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, CHEM 127, PBHL 270, 275, PSYC 241, STAT 222 (C or better for all). *Corequisite:* NRSRG 306. Laboratory learning activities provide the students opportunities to practice and demonstrate skill proficiency in a clinical and simulated setting. Nursing content and theory are acquired and applied in the skills laboratory for application to patient care in various healthcare settings.

NRSRG 314 CLINICAL JUDGEMENT IN NURSING (2) *Prerequisites:* First 2-years of pre-nursing classes completed with a GPA 3.0 or better and a C or better in: BIOL 224, 225, and 227, CHEM 127, PBHL 270, 275, PSYC 241, and STAT 222. This course teaches clinical judgment used to provide safe care in nursing. The components of clinical judgment are taught organized in a clinical judgment framework used to make safe patient care decisions. Students learn specific clinical judgment competencies used to carry out the nursing process as well as to deal with aspects of safe practice in the current healthcare environment. This course teaches the detailed clinical judgment processes used in all patient care environments across the curriculum as well as for preparation for the cognitive processes tested on the NCLEX.

NRSRG 318 MENTAL HEALTH (3) *Prerequisites:* NRSRG 300, 306, 314, 326, 330/330L (B- or better). *Minimum overall GPA of 3.0. Corequisite:* NRSRG 318L. Three-hour lecture must be taken concurrently with NRSRG 318L. Mental Health Nursing builds on and applies concepts of nursing practice to the care of patients with various mental health needs. The course also expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing content and theory are acquired and applied in the classroom then further applied to patient care in various healthcare settings.

NRSRG 318L MENTAL HEALTH LAB (1) *Prerequisites:* NRSRG 300, 306, 314, 326, 330/330L (B- or better). *Minimum overall GPA of 3.0. Corequisite:* NRSRG 318. Three hour per week clinical must be taken concurrently with NRSRG 318. Mental Health Nursing builds on and applies concepts of nursing practice to the care of patients with various mental health needs. The course also expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing content and theory are acquired and applied to patient care in various healthcare settings.

NRSRG 319 NURSING RESEARCH (2) *Prerequisites:* NRSRG 300, 306, 314, 318, 326, 330, 343 (B- or better); grade of C- or higher in ENGL 123W, HONR 103W, or equivalent; STAT 222 (C or better), and minimum overall GPA of 3.0. Nursing Research focuses on the interpretation and use of research evidence to inform nursing practice. The course applies previously learned nursing concepts to the research process. Concepts of interest to nursing research are covered and include information management systems, evidence-based practice, patient-centered care, collaboration, and communication. Clinical judgment is used to develop a research proposal related to contemporary nursing practice.

NRSRG 326 PATHOPHYSIOLOGY (3) *Prerequisites:* First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, PSYC 241, STAT 222 (C or better for all). This course explores pathophysiology as alteration in normal functioning and ways pathologies present in diverse individuals across the lifespan. Students study common pathologies then apply nursing care using clinical judgment for the purpose of case finding, patient education, health counseling, disease prevention, disease treatment, and health promotion and well-being. Professional nursing concepts are addressed in relation to the nurse's role in helping individuals and populations move toward optimum health.

NRSRG 330 HEALTH ASSESSMENT (2) *Prerequisites:* First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, PSYC 241, STAT 222 (C or better for all). *Corequisite:* NRSRG 330L. Two-hour lecture must be taken concurrently with NRSRG 330L.

Health Assessment teaches the knowledge base and nursing skills necessary for a systematic and comprehensive health history and physical assessment at a beginning level. Normal assessment findings, differences related to diversity, common alterations from normal, and variations across the lifespan are considered.

NRSRG 330L HEALTH ASSESSMENT LAB (1) *Prerequisites: First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, PSYC 241, STAT 222 (C or better for all). Corequisite: NRSRG 330.* Three-hour per week skills lab must be taken concurrently with NRSRG 330. Health Assessment teaches the knowledge base and nursing skills necessary for a systematic and comprehensive health history and physical assessment at a beginning level. Normal assessment findings, differences related to diversity, common alterations from normal, and variations across the lifespan are considered. Students demonstrate skill proficiency.

NRSRG 343 CARE OF ADULTS I (4) *Prerequisites: NRSRG 300, 306, 314, 326, 330/330L (B- or better). Minimum overall GPA of 3.0. Corequisite: NRSRG 343L.* Adult Health Nursing builds on nursing concepts necessary for safe, compassionate, patient-centered nursing care applied to patients with stable and unstable conditions. The course also expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing theory is acquired and applied in the classroom and then further applied to patient care in various healthcare settings.

NRSRG 343L CARE OF ADULTS I LAB (3) *Prerequisites: NRSRG 300, 306, 314, 326, 330/330L (B- or better). Minimum overall GPA of 3.0. Corequisite: NRSRG 343.* A clinical laboratory. Nursing theory is acquired and applied to patient care in various healthcare settings.

NRSRG 387 DOMESTIC STUDY AWAY (3) Domestic Study Away is a parallel experience to study abroad as an experiential learning opportunity that allows students to earn academic credits toward the completion of a degree in an off-campus location using domestic destinations around the United States. Study away programs expose students to diverse perspectives and multiple modes of inquiry in ways not ordinarily achieved in a classroom setting.

NRSRG 397 INDEPENDENT STUDY IN NURSING (1-3) *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

NRSRG 398 SPECIAL TOPICS IN NURSING (1-3) [credit depends on topic] *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

NRSRG 399 INTERNSHIP IN NURSING (1-12) *Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator, and supervising faculty prior to registration.* A limited number of internships are available that allow junior and senior nursing majors to have additional opportunities to work in an agency setting under direct supervision. (See "Internships.")

NRSRG 411 IMPROVING PATIENT OUTCOMES (2) *Prerequisites: NRSRG 300, 306, 314, 330/330L (B- or better), and grade of C- or higher in ENGL 123W, HONR 103W, or equivalent, and overall minimum of GPA 3.0.* This course focuses the role of the nurse in various areas of healthcare practice for the purpose of improving patient outcomes. Areas of study include individual patient care, quality improvement, transitional care, sentinel events, and other matters that affect patient outcomes. Related concepts studied include safety, evidenced-based practices, healthcare organizations, health policy, and social determinants of health.

NRSRG 419 TRANSITION TO PRACTICE (6) *Prerequisites: NRSRG 300, 306, 314, 318, 319, 326, 330/330L, 343, 435/435L, 436/436L (B- or better). Corequisite: 411.* Three-hour lecture and nine hours clinical per week. This advanced, comprehensive course provides high level application of clinical judgment to apply nursing concepts and content taught throughout the program to individual patient situations. This course enables the individual student to recognize areas of nursing and thinking that need enhancement prior to entering professional nursing practice. Also included is a review of content and strategies for success on the NCLEX-RN®.

NRSRG 421 POPULATION CARE (3) *Prerequisites: NRSRG 300, 306, 314, 318/318L, 319, 326, 330/330L, 343, 435/435L, 436/436L (B- or better). Minimum overall GPA of 3.0. Corequisite: NRSRG 421L.* Three-hour lecture must be taken concurrently with NRSRG 421L. Population Care expands and applies concepts previously learned in nursing courses to diverse populations in various community settings including examining public health nursing. The course includes social determinants of health and illness present in the community. Nursing content and theory acquired and applied in the classroom is then applied in various community and out-patient settings.

NRSRG 421L POPULATION CARE LAB (1) *Prerequisites: NRSRG 300, 306, 314, 318/318L, 319, 326, 330/330L, 343, 435/435L, 436/436L (B- or better). Minimum overall GPA of 3.0. Corequisite: NRSRG 421.* Three hour per week clinical must be taken concurrently with NRSRG 421. Population Care expands and applies concepts previously learned in nursing courses to diverse populations in various community settings including examining public health nursing. The course includes social determinants of health and illness present in the community. Nursing content and theory acquired and applied in various community and out-patient settings.

NRSRG 435 MATERNAL/NEWBORN NURSING (3) *Prerequisites: First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, NRSRG 300, 306, 314, 318/318L, 319, 326, 330/330L, 343 (B- or better); PSYC 241, STAT 222 (C or better for all). Minimum overall GPA of 3.0. Corequisite: NRSRG 435L.* Three-hour lecture must be taken concurrently with NRSRG 435L. Maternal/Newborn Nursing expands on nursing concepts necessary for safe, compassionate, patient-centered nursing care applied to maternal/newborn care. The course expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing theory is acquired and applied in the classroom then further applied to patient care in various healthcare settings.

NRSRG 435L MATERNAL/NEWBORN NURSING LAB (1) *Prerequisites: First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, NRSRG 300, 306, 314, 318/318L, 319, 326, 330/330L, 343 (B- or better); PSYC 241, STAT 222 (C or better for all). Minimum overall GPA of 3.0. Corequisite: NRSRG 435.* Three hour per week clinical must be taken concurrently with NRSRG 435. Maternal/Newborn Nursing expands on nursing concepts necessary for safe, compassionate, patient-centered nursing care applied to maternal/newborn care. The course expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing theory is acquired and applied to patient care in various healthcare settings.

NRSRG 436 PEDIATRIC NURSING (3) *Prerequisites: First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, NRSRG 300, 306, 314, 318, 319, 326, 330, 343 (B- or better); PSYC 241, STAT 222 (C or better for all). Minimum overall GPA of 3.0. Corequisite: NRSRG 436L.* Three-hour lecture must be taken concurrently with NRSRG 436L. Pediatric Nursing expands on nursing concepts necessary for safe, compassionate, patient-centered nursing care applied to the care of children. The course expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing theory is acquired and applied in the classroom then further applied to patient care in various healthcare settings.

NRS 436L PEDIATRIC NURSING LAB (1) *Prerequisites:* First 2-years of pre-nursing classes completed with a GPA 3.0 or better and: BIOL 224, 225, 227, CHEM 127, PBHL 270, 275, NRS 300, 306, 314, 318, 319, 326, 330, 343 (B- or better); PSYC 241, STAT 222 (C or better for all). *Minimum overall GPA of 3.0. Corequisite:* NRS 436. Three hour per week clinical must be taken concurrently with NRS 436. Pediatric Nursing expands on nursing concepts necessary for safe, compassionate, patient-centered nursing care applied to the care of children. The course expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing theory is acquired and further applied to patient care in various healthcare settings.

NRS 437 NURSING LEADERSHIP (3) *Prerequisites:* NRS 300, 306, 314, 318, 319, 326, 330, 343, 435, 436 (B- or better), grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. *Minimum overall GPA of 3.0.* Nursing Leadership provides the opportunity for students to apply nursing content to the leadership role of the professional nurse. Students complete a leadership project that demonstrates the ability to synthesize previous learning experiences from across the curriculum applied to an identified area of nursing leadership with a selected patient population.

NRS 443 CARE OF ADULTS II (4) *Prerequisites:* NRS 300, 306, 314W, 318/318L, 319, 326, 330/330L, 343 (B- or better). *Overall minimum of GPA 3.0. Corequisite:* NRS 443L. Care of Adults II expands on the nursing concepts necessary for safe, compassionate, patient-centered nursing care applied to the care of patients with complex healthcare issues. The course expands on professional nursing concepts including clinical judgment and collaboration with members of the healthcare team. Nursing theory is acquired and applied in the classroom then further applied to patient care in various healthcare settings.

NRS 443L CARE OF ADULTS II LAB (3) *Prerequisites:* NRS 300, 306, 314W, 318/318L, 319, 326, 330/330L, 343 (B- or better). *Overall minimum of GPA 3.0. Corequisite:* NRS 443. A clinical laboratory where nursing theory is acquired and applied to patient care in various healthcare settings.

PHILOSOPHY COURSES (PHIL)

PHIL 200W INTRODUCTION TO PHILOSOPHY [Writing Enriched] (3) *Corequisite or prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This course examines traditional philosophy problems with readings from major works in the history of Western philosophy. The basic principle of logic and major approaches to ethical decision-making are important parts of the course.

PHIL 201 INTRODUCTION TO LOGIC (3) This beginning course focuses on aspects of valid and invalid reasoning. Topics include definition, fallacious argumentation, the various uses to which language may be put, and elementary deduction.

PHIL 204W ETHICS [Writing Enriched] (3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This course introduces moral philosophy and several applications to the problems of present-day living.

PHIL 214W GREEK PHILOSOPHY [Writing Enriched] (3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This introduction to Greek philosophy focuses primarily on Plato and Aristotle.

PHIL 215 MEDIEVAL PHILOSOPHY (3) Philosophical themes of the Middle Ages are related to the Neoplatonic and Aristotelian traditions as they influenced major thinkers of the period. Topics include wisdom as the goal of inquiry; the relation between faith and reason; the existence of God; the nature of humanity; and the immortality of the soul.

PHIL 216 MODERN EUROPEAN PHILOSOPHERS (3) This study of seventeenth- and eighteenth-century European philosophers includes Descartes, Locke, Berkeley, Hume, and Kant.

PHIL 217 CLASSIC AMERICAN PHILOSOPHERS (3) This course is an analysis of the philosophy writings of major American philosophers from the Pragmatic and Idealistic schools including Charles Sanders Peirce, William James, and John Dewey.

PHIL 220W ART, TRUTH, AND VALUE [Writing Enriched] (3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. An introduction to the philosophy of the fine arts, this course includes an examination of various definitions of art, discussions of the value of art to society, and an analysis of emotions found in the esthetic experience.

PHIL 221 MEANING AND EXISTENCE (3) This course examines the existential nature of human beings as they encounter and search for meaning in existence. Topics for discussion include such existential themes as authenticity, guilt, personal freedom, and the meaning of death. Course readings include the writings of theistic and atheistic existentialists.

PHIL 222W GOD, FAITH, AND EVIL [Writing Enriched] (3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This course examines philosophical problems relating to religious faith.

PHIL 224 ETHICAL ISSUES IN MEDICINE (3) This course analyzes moral issues related to the areas of health care such as informed consent, abortion, physician-patient relationship, and the just distribution of health care.

PHIL 225 ENVIRONMENTAL ETHICS (3) An introduction to ethical issues and approaches concerning environmental studies. Topics to be addressed include the application of moral theory to various significant environmental issues, ethical treatment of animals, private ownership versus the common good, public policy and environmental concerns, and justice to current and future generations of humans.

PHIL 226 ETHICS OF WAR (3) The ethics of war is the study of ethics related to and within war. The purpose of this course is to give students a broad overview of many of the basic issues in the ethics of war. For example, when is it okay for a country to go to war? Can non-combatants (non-soldiers) ever justifiably be killed in war? What is owed to the victims of war after it is over?

PHIL 227W JUSTICE, FREEDOM, AND EQUALITY [Writing Enriched] (3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This course introduces social/political philosophy and its application to the problems of present-day society.

PHIL 305 PHILOSOPHY OF SCIENCE (3) This introduction to the philosophy of science includes a study of the concepts of the empirical sciences, their methods and procedures, and their philosophical implications.

PHIL 306W KNOWLEDGE AND REALITY [Writing Enriched] (3) *Prerequisite:* Grade of C- or higher in ENGL 123W, HONR 103W, or equivalent. This examination of the nature of knowledge places emphasis on the distinction between knowledge and belief, different types of knowing, the problem of skepti-

ALUMNI AND PARENTS, FAMILY, AND NEW STUDENT CONNECTIONS

Alumni Relations

The Lynchburg Alumni Association, under the leadership of officers and a board of directors, strives to develop and strengthen the relationships among current students, alumni, and the University. The Student Government Association President, or his/her representative, is invited to attend the fall and spring meeting of the Alumni Association Board of Directors. He/she will also serve on the Student Life Committee. Programs sponsored by the Alumni Association include Homecoming, class reunions, affinity group programming, alumni activities, career networking, alumni awards, and activities for current students to introduce them to the Alumni Association.

The Senior Director of Engagement in the Office of Advancement coordinates these activities and serves as a liaison among the University, students, and organized alumni events. The Office of Advancement is also responsible for the oversight of all alumni-related social media and alumni records, alumni specific communications, and the development of class notes for the University of Lynchburg Magazine. The Alumni Association encourages alumni to support The Lynchburg Fund and other fundraising projects.

Parent, Family and New Student Connections

Parent, Family and New Student Connections onboards new students and their family members by developing and facilitating programs, initiatives, and services to support them throughout their tenure at Lynchburg. The office partners with key stakeholders to design orientation and welcome week (Hornet Days) programs that engage, challenge, develop, and support all incoming students and help prepare them for experiencing college life, as well as the challenges and opportunities that lie ahead—academically, intellectually, emotionally, and socially.

In addition, we engage with parents as partners knowing they play a key role in the success of our students. Our primary form of communication with parents and families is through our weekly newsletter, the Hornet Family Hive, that can be accessed at lynchburg.campusesp.com. Programming for families includes our annual Parents and Family Weekend which takes place in the fall and we, in association with the Vice President for Student Development, oversee the Parents and Family Advisory Council. Our contact and social media information can be found on our webpage at Lynchburg.edu/alumni-friends/parents-and-family-programs/. Email us at Parents@lynchburg.edu.

