



2013 – 2014 Bulletin

College of Arts And Sciences

Berrien Springs, Michigan 49104
www.andrews.edu 800–253–2874

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Please contact the appropriate personnel for information pertaining to schools, departments, programs, and courses. For all other bulletin inquiries you may contact the Publications & Communication Specialist in the Office of Academic Records by email at bulletin@andrews.edu or by phone at (269) 471–3233.

Volume 102

Andrews University Bulletin is published by Andrews University, Berrien Springs, Michigan 49104. Postage paid at Berrien Springs, Michigan 49103.

POSTMASTER: Send change of address P.S. 3579 to Andrews University Bulletin, Andrews University, Office of Admissions, Berrien Springs, Michigan 491

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Course Prefixes and Numbers

Courses are listed by course prefix and course number. Course prefixes are listed below in alphabetical order. At the end of each prefix designation is an abbreviated symbol in parentheses for the school in which the prefix occurs. Symbols are as follows:

College of Arts and Sciences (CAS) School of Architecture, Art & Design (SAAD)		School of Business Administration (SBA) School of Education (SED)		School of Health Professions (SHP) Seventh-day Adventist Theological Seminary (SEM)	
ACCT	Accounting (SBA)	EDUC	Education—General (SED)	MSSN	World Mission (SEM)
AFLT	Aeronautical Flight	ENGL	English (CAS)	MUCT	Music Composition & Theory (CAS)
AGRI	Agriculture	ENGM	Engineering Management (CAS)	MUED	Music Education (CAS)
ALHE	Allied Health (CAS)	ENGR	Engineering (CAS)	MUHL	Music History & Literature (CAS)
ANSI	Animal Science	ENGT	Engineering Technology (CAS)	MUPF	Music Performance (CAS)
ANTH	Anthropology (CAS)	ENSL	Intensive English (CAS)	MURE	Music—Religious (CAS)
ARCH	Architecture (SAAD)	FDNT	Nutrition (SHP)	NRSG	Nursing (SHP)
ART	Art Studio (SAAD)	FILM	Film (SAAD)	NTST	New Testament Studies (SEM)
ARTH	Art History (SAAD)	FMST	Family Studies (CAS)	OTST	Old Testament Studies (SEM)
AVIA	Aviation	FNCE	Finance (SBA)	PHIL	Philosophy (CAS)
AVMT	Aviation Maintenance	FREN	French (CAS)	PHTH	Physical Therapy (SHP)
BCHM	Biochemistry (CAS)	FTES	Fitness & Exercise Studies (SHP)	PHTO	Photography (SAAD)
BHSC	Behavioral Sciences (CAS)	GDPC	Graduate Psychology & Counseling (SED)	PHYS	Physics (CAS)
BIBL	Biblical Languages (CAS)	GEOG	Geography (CAS)	PLSC	Political Science (CAS)
BIOL	Biology (CAS)	GNST	General Studies (CAS)	PORT	Portuguese (CAS)
BSAD	Business Administration (SBA)	GRMN	German (CAS)	PREL	Public Relations (CAS)
CHEM	Chemistry (CAS)	GSEM	General Theological Seminary (SEM)	PSYC	Psychology (CAS)
CHIS	Church History (SEM)	HIST	History (CAS)	PTH	Physical Therapy – Professional & Post–Professional (SHP)
CHMN	Christian Ministry (SEM)	HLED	Health Education (SHP)	RELB	Religion—Biblical Studies (CAS)
CIDS	Comm & Intl Development (CAS)	HONS	Honors (all undergraduate)	RELG	Religion—General (CAS)
COMM	Communication (CAS)	HORT	Horticulture	RELH	Religion—History (CAS)
CPTR	Computing & Software Engineering (CAS)	IDSC	Interdisciplinary Studies (CAS)	RELP	Religion—Professional & Applied Studies (CAS)
DSGN	Design (SAAD)	INFS	Information Systems (SBA)	RELT	Religion—Theology (CAS)
DSRE	Discipleship & Religious Education (SEM)	INLS	International Language Studies (CAS)	SOCI	Sociology (CAS)
ECON	Economics (SBA)	JOUR	Journalism (CAS)	SOWK	Social Work (CAS)
EDAL	Educational Administration & Leadership (SED)	LEAD	Leadership (SED)	SPAN	Spanish (CAS)
EDCI	Educational Curriculum & Instruction (SED)	MAED	Mathematics Education (CAS)	SPED	Special Education (SED)
EDFN	Educational Foundations (SED)	MATH	Mathematics (CAS)	SPPA	Speech–Language Pathology & Audiology (SHP)
EDRM	Research & Measurement (SED)	MDIA	Media (SAAD)	STAT	Statistics (CAS)
EDTE	Teacher Education (SED)	MKTG	Marketing (SBA)	THST	Theology & Christian Philosophy (SEM)
		MLSC	Medical Laboratory Sciences (SHP)		
		MSCI	Mathematics and Science (CAS)		

COURSE NUMBERS

Non Credit	Below 100	Courses enabling the student to qualify for freshman standing
Undergraduate Lower Division	100–199	Courses usually taken during the freshman year
	200–299	Courses usually taken during the sophomore year
Undergraduate Upper Division	300–399	Courses usually taken during the junior year
	400–499	Courses usually taken during the senior year
Graduate Level	500–699	Courses for graduate students only
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College of Arts & Sciences

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Mission

To empower students for academic, professional and service excellence in the liberal arts and sciences with distinctive Seventh-day Adventist perspective and purpose.

Pre-Professional

Pre-Professional Program in Dental Assistant and Dental Hygiene

James Hayward, *Coordinator*
269-471-3241

Price Hall (Science Complex)

Students interested in a dental assistant career should obtain information concerning the program from the school to which they wish to apply.

Students planning a career in dental hygiene should complete two years of college work before entering a professional school.

Upon completion of an additional two years of prescribed college work at a professional school, the student will earn a bachelors degree in dental hygiene. For more information about dental hygiene, contact the American Dental Hygienists' Association: www.adha.org.

Pre-Professional Programs

Although essentially a liberal arts college, the College of Arts & Sciences offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Pre-dental Hygiene Curriculum—64

Loma Linda University admission requirements

- At least 64 semester units of accredited college coursework
- GPA of 3.0 or higher in science courses is recommended
- Courses must be a C or higher to meet LLUSD requirements
- Science courses must be completed within five (5) years of admission
- Proficiency in verbal and written English
- 20 hours minimum of observation/shadowing
- Dental assisting experience is strongly recommended
- Three letters of reference, including: spiritual leader, science professor, and employer
- A formal interview (by invitation only)
- Official transcripts from all schools attended

The following courses are recommended for the first two years before entering Loma Linda University. Students interested in applying to other professional schools should obtain specific entrance requirements for those schools. *Specifically required courses are signified with an *.*

Cultural and Spiritual Heritage—17-20

(must include both areas)

- Religion—3 semester units per year of attendance at an SDA college
- Humanities—14 semester units from three of the content areas listed below
 - History & Civilization
 - Art History & Art Appreciation
 - Music History & Music Appreciation

- Performing Arts (4 units max)
- Literature
- Foreign Language
- Philosophy & Ethics

Scientific Inquiry and Analysis—32

Physical & Natural Sciences—23

- BIOL 221* & BIOL 222*
- BIOL 260*
- BCHM 120* and CHEM 110*—one academic year covering inorganic, organic, and biochemistry with lab

• MATH 145*

Social Sciences—9

- SOCI 119*
- PSYC 101*
- ANTH 200*

Communication Skills—9

- ENGL 115* and ENGL 215*
- COMM 104*

Health and Wellness—5

- 1 course covering Personal Health or Nutrition
- Physical education (2 activity courses)

Pre-Professional Program in Dentistry

Students from Departments within The College of Arts & Sciences

James Hayward, *Coordinator*, 269-471-3241, Price Hall (Science Complex)

David Randall, 269-471-3259, Halenz Hall (Science Complex)

Preference is given to applicants who have a broad academic background with a baccalaureate degree. The minimum entrance requirement is 96 semester credits with a 2.70 GPA (C=2.00) in both science and non-science courses, although it is recommended that students should maintain an A/B average in science as well as overall. The Dental Aptitude Test (DAT) must be taken not later than October of the year preceding admission. Minimum entrance requirements for most dental schools follow. For more information, contact the American Association of Dental Schools: www.aads.jhu.edu and the American Dental Association www.ada.org.

Pre-Professional Programs

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Required courses for applicants to Loma Linda University:

English Composition—6
Foundations of Biology—10
General Chemistry—8
Organic Chemistry—8
General Physics—8
Biochemistry—4

Recommended:

Human anatomy, biochemistry, histology, computer science, systems physiology, management and organization, fundamentals of accounting, a survey of calculus, machine shop, and religion.

Total pre-dental credits: 96

Pre-Professional Program in Law

Brent Geraty, *Coordinator*
269-471-6530, bgeraty@andrews.edu
Buller Hall, Room 135

Law schools prescribe no particular college program. Therefore, a pre-law student may select her major(s) and minor(s) according to interest and aptitude without adversely affecting admission to law school. The prospective lawyer's education

should be as broad as possible, including the development of writing and reading skills, logical and analytical thinking, and understanding of legal, political, social and economic issues and institutions. Because competition for admission to reputable law schools is intense, it is important to maintain a high level of academic achievement.

Students who want to go on to law school should consult frequently with the pre-law advisor, certainly at least once per year and preferably more often. The Pre-Law Society, a student-led and student-run organization, provides additional opportunities and resources for the pre-law student.

The web site for the Law School Admission Council: www.lsac.org provides a great deal of helpful information and is a good resource for students who are interested in preparing for, and getting into, law school.

Pre-Professional Programs

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Pre-Professional Program in Medicine

Students from Departments within The College of Arts & Sciences

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Ryan Hayes: 269-471-3248

Aileen Hyde: 269-471-3277

Marcia A. Kilsby: 269-471-6294

Pamela Litvak: 269-471-3240

Kanya Long: 269-471-3263

Peter Lyons: 269-471-6168

David N. Mbungu: 269-471-6399

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Timothy Newkirk: 269-471-3605

D. David Nowack: 269-471-6065

David Randall: 269-471-3259

Karen Reiner: 269-471-3622

Robert Zdor: 269-471-6696

Science Complex

Although allopathic (MD) and osteopathic (DO) medicine represent different philosophies of patient care, a physician in either branch of medicine is required to pass the same national board examination to practice.

Students seeking admission to medical schools are encouraged to plan a baccalaureate degree that includes courses which meet the stated entrance requirements of the medical school of their choice as listed in Medical School Admissions Requirements or the websites of the Association of American Medical Colleges: www.aamc.org and the American Association of Colleges of Osteopathic Medicine: www.aacom.org. The pre-medical student may choose any major or minor and is encouraged to become acquainted with the main bodies of knowledge as represented by the various academic disciplines.

In light of adequate preparation for the Medical College Admissions Test (MCAT) and changes in medical school requirements, students should incorporate coursework in the following areas into their curriculum:

- Biochemistry
- Sociology
- Psychology
- Statistics

Pre-Professional Programs

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Required Courses

For Applicants to Loma Linda University School of Medicine

English Composition—6

Foundations of Biology—10

General Chemistry—8

General Physics—8

Organic Chemistry—8

Religion—9

Students should maintain an A/B average in science as well as overall.

Pre-Professional Program in Occupational Therapy

Students from Departments within The College of Arts & Sciences

Bill Chobotar, Coordinator, 269-471-3262, Price Hall (Science Complex)

The occupational therapist helps people cope with psychological or physiological dysfunction.

Pre-Professional Programs

Although essentially a liberal arts college, the College of Arts & Sciences offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Prerequisites for Loma Linda University Admission

To be eligible for admission, the applicant must have completed a minimum of 96 quarter units (64 semester units) at an accredited college or university. The following prerequisites are required and must be completed successfully with a grade of C or better. Upon successful completion of didactic and fieldwork requirements, students will graduate from LLU with a bachelor's degree in health science and a master's in occupational therapy. Students are then eligible to take the NBCOT's National OT board exam.

Prerequisites: Domain 1: Spiritual and Cultural Heritage

Religious studies, 4 quarter units per year of full-time study.

(Applies only to students attending Seventh-day Adventist colleges.)

Minimum 20 quarter units, or 14 semester units. Choose from three subject

areas: fine arts, history, civilization, literature, modern language, or philosophy.

English as a second language may not be included. A maximum of 4 quarter units will be accepted in applied or performing art/music.

Prerequisites: Domain 2: Scientific Inquiry and Analysis: Natural Sciences

Human Anatomy with lab

Human Physiology with lab: 2 semesters or quarters of A&P are required.

Select one additional science course from chemistry, physics or physical science.

Mathematics: Two years of HS mathematics or equivalent. Accepted courses include algebra I&II, geometry, with grades of C or better. (These credits do not transfer although they meet the math requirement.)

Completed Need Social Sciences:

Sociology

General Psychology

Human Growth & Development. (Other acceptable equivalents are Developmental Psychology, Life Cycle, or Child Psychology and Adolescent Psychology.)

Prerequisites: Domain 3: Communication (9-13 quarter units, or 6-9 semester units)

Freshman English Composition, complete sequence, as required by the college you attended or are currently attending.

Note: If you test out of any Freshman English courses, you are still required to meet the minimum number of units for this Domain.

Speech, public speaking

Domain 4:

Health education (personal health or nutrition)

Two physical activities courses

Electives

Minimum requirement for entry is 96 quarter units, or 64 semester units.

Computer knowledge in the following areas is required: creating college level papers and assignments, Internet-based research, e-mail usage, PowerPoint presentations, online learning components.

Observation/Volunteer Service

40 hours of observation in occupational therapy settings. Documentation of community service performed is permissible as partial fulfillment of this requirement. Documentation of observation and/or community service must be submitted prior to admission consideration.

CPR—infant, child and adult. BLS health care provider. We only accept CPR from American Heart Association. This certification is not needed for the admissions process, but will be required upon acceptance to the program.

Note:

A minimum grade of C is required for transfer credit. C– and D grades are not transferable.

Pre–Professional Program in Optometry

James L. Hayward, Coordinator
269–471–3241

Price Hall (Science Complex)

As a general rule, a minimum of two years of college work is required by optometry school. However, most students entering optometry schools have completed three or four years of college. The following courses with minor variations meet the entrance requirements of most optometry schools. For more information, contact the American Optometric Association: www.aoanet.org and the Association of Schools and Colleges of Optometry: www.opted.org.

Pre–Professional Programs

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Pre–optometry Suggested Courses

English Composition, Writing Seminars — 8

Foundations of Biology — 10

General Chemistry — 8

General Physics — 8

Introduction to Psychology — 3

Mathematics — 6

Microbiology or Bacteriology — 3

Organic Chemistry — 8

Physical Education — 2

Religion — 6

Social Sciences — 8

Statistics — 3

Pre–Professional Program in Pharmacy

D. David Nowack, *Coordinator*
269–471–6065

Halenz Hall (Science Complex)

Entrance requirements to colleges of pharmacy vary; therefore, it is imperative that students familiarize themselves with the requirements of the school of their choice. (Ferris State University [FSU], Wayne State University, and University of Michigan operate accredited colleges of pharmacy in the state of Michigan.) Information about the various schools of pharmacy can be found on the American Associate of Colleges of Pharmacy website: www.aacp.org. The doctor of pharmacy curriculum requires 2 years of pre–pharmacy and 4 years of professional pharmacy education.

The following prepharmacy courses are those required by FSU. FSU offers a calculus course in the summer that satisfies the prepharmacy requirements and require the PCAT for admission. Science courses with a grade of D are not transferable.

Pre–Professional Programs

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Pre–pharmacy Curriculum

General Chemistry — 8

English Composition — 6

Foundations of Biology — 10

Communication (COMM 104 or COMM 320) — 2 or 3

Introduction to Psychology or Principles of Sociology — 3

Elementary Statistics (STAT 340 or STAT 285) — 3

General Microbiology — 4

Organic Chemistry — 8

Calculus (MATH 191) — 4

Macroeconomics — 3

Cultural Enrichment (one at 200–level) — 9

Pre–Professional Program in Physician Assistant

Students from Departments within The College of Arts & Sciences

For students within the College of Arts & Science

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H. Thomas Goodwin: 269–471–3242

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Marlene N. Murray: 269–471–6243

Price Hall (Science Complex)

D. David Nowack: 269–471–6065, Halenz Hall (Science Complex)

Physician assistants (PAs), members of a health–care team, practice medicine with supervision of licensed physicians. PAs perform a wide range of medical duties from basic primary care to high–technology specialty procedures. Professional PA education offered at any one of more than 100 accredited schools is an intensive 2–3 year program. Most PA programs are moving toward requiring a bachelors degree including courses in biology, chemistry, English, humanities/social science, mathematics, and psychology. The level of the science courses varies from program to program; consequently, each school should be consulted about its prerequisite requirements. Acceptance to a professional program typically requires an extensive health–care experience such as nurse assistant, medical/X–ray lab technician, respiratory therapist, paramedic, hospital aide, and emergency medical technician.

The National Directory of PA Programs may be ordered from APAP at 950 N. Washington St., Alexandria, VA 22314 or phone: 800– 708–7581. PA programs and education can be accessed via the web: www.aapa.org.

Pre–Professional Programs

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Pre–Professional Program in Public History

John J. Markovic, *Coordinator*

269–471–3511

Buller Hall, Room 135

Public or applied history refers to careers in history–related fields other than teaching, including museum management, archival management, and historic preservation, as well as the production of historical media programs. In most cases, a master’s degree in a public or applied history program or certification upon completion of certain graduate courses are needed prior to employment. The Department of History & Political Science recommends as curricula a major in history with a second major or minor and electives as the most advantageous undergraduate basis for a public–history career. Curriculum recommendations are available from the department chair.

Pre–Professional Programs

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Pre–Professional Program in Respiratory Care

Bill Chobotar, *Coordinator*

269–471–3262

Price Hall (Science Complex)

Andrews University offers prerequisite course work to prepare students who wish to enter a 2–year Associate of Science degree program or a 4–year Bachelor of Science degree program in Respiratory Care. Admission requirements vary among professional respiratory care programs. Not all professional programs accept transfer credits. Therefore, as soon as possible, interested students should contact the programs of choice for the most current prerequisite requirements. A list of accredited respiratory care programs may be obtained from the American Association for Respiratory Care, 11030 Ables Lane, Dallas, TX 75229 (phone 972–

243–2272 and ask for the Education Department) or explore the web at:
www.aarc.org/patient_resources/schools.html.

Pre–Professional Programs

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Loma Linda University:

Interested students may complete the prerequisites for Loma Linda University’s Respiratory Care Education Program while attending Andrews University. Check with the above listed coordinator for the required course work. The Pre–LLU/RC student may then apply and transfer to LLU through its selective admissions process as a second–year student in their program.

Behavioral Neuroscience

Buller Hall, Room 211, Price Hall, Room 216,
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Faculty

Karl Bailey, *Director*, Psychology
Harvey Burnett, Psychology
Pamela Coburn–Litvak, Biology
Tom Goodwin, Biology
James Hayward, Biology
Herbert Helm, Advisor, Psychology
Shandelle Henson, Advisor, Mathematics
David Mbungu, Advisor, Biology
Duane McBride, Advisor, Behavioral Sciences
Benjamin Navia, Biology
Melissa Ponce–Rodas, Advisor, Psychology
Gordon Atkins, Adjunct, Biology

Mission

As a program at a Seventh–day Adventist University, the behavioral neuroscience program aims to help students integrate their study of the mind and brain into their faith development and Christian walk by encouraging the careful study of, and faithful response to, their area of study and scholarship as both Christians and developing scholars..

Behavioral Neuroscience is an interdisciplinary program at Andrews University that is based in the Departments of Behavioral Sciences, Biology and Mathematics. Its purpose is to provide opportunities for undergraduates to prepare for exciting careers in the fascinating, rapidly growing scientific fields which involve the study of the brain and its control of behavior. In addition to helping students learn basic information about neurobiology, cognitive neuroscience, behavioral neuroscience, and mathematical modeling, the Behavioral Neuroscience program involves students in hands–on, laboratory experiences, using research–quality equipment, and prepares students to not only learn from their field of study but to actively contribute to that field as well. Indeed, research with a faculty mentor is an integral part of the program, with the goal of student presentation and publication of research in professional venues. The interdisciplinary nature of Behavioral Neuroscience is reflected in a common core of classes taken by all students, whether they are majoring in Psychology, Biology or Mathematics, and in the flexibility afforded by each of the three emphases within the program for interdisciplinary study and original research.

As an interdisciplinary program that exists across three departments, the Behavioral Neurosciences Program also aims to develop and reflect a spirit of collaboration and integration on the campus, as exemplified in the interdisciplinary interests and work of faculty and students.

Programs

Bachelors

- Biology, Behavior/Mathematics Emphasis BS (See Biology section)
- Biology, Neuroscience Emphasis BS (See Biology section)
- Psychology, Behavioral Neuroscience Emphasis BS (See Psychology section)

Behavioral Sciences

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Faculty

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Herbert W. Helm
Øystein S. LaBianca
Lionel N. A. Matthews
Melissa Ponce-Rodas
Joel Raveloharimisy, *Director of on-campus Community & International Development Program (CIDP)*
Larry S. Ulery

Adjunct Faculty

Alina M. Baltazar
Dawn Dulhanty
Edwin Hernandez
Gary L. Hopkins
Harold James
Kristen Witzel

Mission

The Department of Behavioral Sciences is concerned with the study of how human beings think and behave, both as individuals and in social, spiritual and cultural settings. By providing students with the discoveries and procedures accumulated from this versatile field of study, our goal is to empower students to utilize their knowledge to further the mission of the Seventh-day Adventist Church and to restore men and women to the image of our Maker.

The Department of Behavioral Sciences is organized as a consortium where faculty share expertise and research endeavors in related disciplines. The behavioral sciences are concerned with the study of how human beings think and behave as individuals, and in sociocultural and ecological systems.

Undergraduate Program Policies/Administration

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Department Aims

This department aims (1) to introduce students to the salient discoveries and procedures accumulated from research in behavioral sciences disciplines and (2) to empower students to utilize this knowledge in furthering the mission of Seventh-day Adventists: restoring men and women to the image of their Maker. The department fulfills these aims by three principal means: (1) instruction by Christian professors; (2) course work which develops a strong liberal-arts foundation and interdisciplinary preparation leading to many different fields of Christian service; and (3) extracurricular participation by students in voluntary religious activities, community service, and research.

Minors, Cognates and Electives

Majors should take advantage of the variety of undergraduate courses available at Andrews to acquire a broad education. Combining behavioral science courses with other areas such as business, health, and language provides avenues for reaching individual professional goals. Students should counsel with advisors in selecting

cognates and electives. Volunteer work is most beneficial and majors are urged to seek opportunities through the Service Learning Program. Those planning to pursue graduate studies should seek opportunities in research.

Research Sequence

It is strongly recommended that all BS majors take the Research Methods Sequence during their junior year.

Bachelors

Behavioral Sciences BS

Behavioral Sciences Core Courses – 15

- SOCI 432 – Research Methods II: Introduction Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Choose one of these three courses

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Choose one of these two courses

- SOCI 474 – Social Thought and Theory Credits: 3
- PSYC 269 – History and Systems of Psychology Credits: 3

Suggested General Education Courses

- PHIL 224 – Introduction to Philosophy Credits: 3

Choose one of the following two courses

- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- BHSC 235 – Culture, Place and Interdependence Credits: 3

Cognate

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3

Electives – 24

The remaining credits are to be selected from at least two of the areas offered in the department or as specified in an area of emphasis below. Those with specific vocational goals may wish to consider one of the following areas of emphasis.

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Behavioral Sciences, Anthropological Archaeology BS

Anthropological Archaeology — 39

(27 credits must be selected from courses numbered 300 or above)

Behavioral Sciences Core Courses — 15

Choose one of these

- ANTH 124 – Introduction to Anthropology Credits: 3

- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Choose one of these

- SOCI 474 – Social Thought and Theory Credits: 3
- PSYC 269 – History and Systems of Psychology Credits: 3

- SOCI 432 – Research Methods II: Introduction Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Anthropological Archaeology Core — 15

Choose one of these

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3

- ANTH 205 – Introduction to Archaeology Credits: 3
- ANTH 435 – Museum and Lab Methods Credits: 3
- ANTH 478 – Archaeological and Ethnographical Credits: 3
- ANTH 496 – Supervised Fieldwork in Anthropology or Archaeology Credits: 1–8

Select at least 9 credits from the following choices:

- ANTH 440 – Topics in Anthropology Credits: 1–3 (ANEA 510)
- ANTH440 – Topics: Bible Lands Explorations (ANEA 514)
- ANTH440 – Topics: Archaeology of Palestine (ANEA 614)
- BIOL 330 – History of Earth and Life Credits: 4
- RELB 111 – Introduction to the Old Testament Credits: 3

Suggested General Education Courses

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- BIOL 100 – Human Biology Credits: 4
- PHIL 224 – Introduction to Philosophy Credits: 3
- RELT 348 – Christians and the Environment Credits: 3

Cognate — 3

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3

Recommended:

For students planning graduate-level training in Anthropology, a foreign language is highly recommended.

Note:

*Students pursuing this major who are interested in a career in International Development may qualify for advanced standing (one year) in the Master of Science in Community and International Development (MSCID) Program if they take at least five of the following: ACCT 121, SOCI 408, SOCI 421, SOCI 431, SOCI 433, SOCI 434. For more information regarding the MSCID, see Behavioral Sciences Graduate Program section.

Computer Policy

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Behavioral Sciences, Anthropology BS

Anthropology — 39

(27 credits must be selected from courses numbered 300 or above)

Behavioral Sciences Core Courses — 15

- SOCI 432 – Research Methods II: Introduction Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Choose one of these three

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Choose one of these two

- SOCI 474 – Social Thought and Theory Credits: 3
- PSYC 269 – History and Systems of Psychology Credits: 3

Anthropological Core — 15

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- ANTH 205 – Introduction to Archaeology Credits: 3
- ANTH 455 – Ethnography Credits: 3

Choose one of these two

- ENGL 440 – Language and Culture Credits: 3
- COMM 436 – Intercultural Communication Credits: 3

Select at least 9 credits from the following choices:

- ANTH 415 – Urban Anthropology Credits: 3
- ANTH 417 – Cultural and Developmental Anthropology Credits: 3
- ANTH 478 – Archaeological and Ethnographical Credits: 3
- ANTH 496 – Supervised Fieldwork in Anthropology or Archaeology Credits: 1–8
- BHSC 440 – Topics in _____ Credits: 1–4 *
- BIOL 330 – History of Earth and Life Credits: 4
- COMM 436 – Intercultural Communication Credits: 3
- HIST 468 – Multi-cultural America Credits: 3
- FMST 350 – Family Cultural Perspectives Credits: 3
- PLSC 460 – Area Study: Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3

Choose one of these two

- RELG 360 – Topics in Religion Credits: 1–3
- SOCI 160 – Introduction to International Development Credits: 3

Suggested General Education Courses

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- RELT 348 – Christians and the Environment Credits: 3

Choose one of these two

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 208 – Environmental Science Credits: 4

Cognate — 3

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3

Recommended:

For students planning graduate-level training in Anthropology, a foreign language is highly recommended.

Computer Policy

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Behavioral Sciences, Public Health BS

Public Health — 38–39

(27 credits must be selected from courses numbered 300 or above). Because of the breadth of the public health emphasis, courses should be selected from each category in consultation with an advisor.

Behavioral Sciences Core Courses — 18

- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3

Choose one of these three courses

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Choose one of these three courses

- PSYC 269 – History and Systems of Psychology Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3
- SOCI 455 – Development Policy and Analysis Credits: 3

Public Health Core — 14/15

- BHSC 405 – Introduction to Public Health Credits: 3
- SOCI 350 – Social Policy Credits: 2

Choose one of these two courses

- SOCI 420 – Medical Sociology Credits: 3
- HLED 480 – Wellness Programs Credits: 3

Choose one of these three courses

- PSYC 420 – Human Sexuality Credits: 3
- SOCI 408 – Emergency Preparedness Credits: 2
- SOCI 415 – Substance Abuse in American Society Credits: 2
- HLED 445 – Consumer Health Credits: 2

Choose one of these three courses

- PSYC 319 – Stress Management Credits: 3
- PSYC 455 – Treatment of Substance Abuse Credits: 2
- PSYC 471 – Behavior Modification Credits: 3

Select at least 6 credits from the following choices:

- ECON 225 – Principles of Macroeconomics Credits: 3
- FMST 310 – Parent–Child Relationships Credits: 3
- SOCI 160 – Introduction to International Development Credits: 3

Suggested General Education Courses

- BIOL 221 – Anatomy and Physiology I Credits: 4 * **and**
 - BIOL 222 – Anatomy and Physiology II Credits: 4 *
- OR
- BIOL 165 – Foundations of Biology Credits: 5 or 4 * **and**
 - BIOL 166 – Foundations of Biology Credits: 5 or 4

- BIOL 208 – Environmental Science Credits: 4
 - CHEM 110 – Introduction to Inorganic and Organic Chemistry Credits: 4 *
- OR
- CHEM 131 – General Chemistry I Credits: 4 * **and**
 - CHEM 132 – General Chemistry II Credits: 4
 - FDNT 230 – Nutrition Credits: 3
 - PHIL 224 – Introduction to Philosophy Credits: 3
 - RELT 348 – Christians and the Environment Credits: 3

Required Cognates — 8

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 480 – Field Experience Credits: 1–8

Note:

*These classes are required for graduate school admission.

*Students pursuing a BS in Behavioral Sciences with an emphasis in Public Health who are interested in a career in International Development may qualify for advanced standing (one year) in the Master of Science in Community and International Development Program (MSCID) if they take at least two of the following: ACCT 121, SOCI 408, SOCI 421, SOCI 431. For more information regarding the MSCID, see Behavioral Sciences Graduate Program section.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Behavioral Sciences, Student Development BS

Student Development — 41

(27 credits must be selected from courses numbered 300 or above)

Core Courses — 21

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- PSYC 210 – Introduction to Health Psychology Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Choose one of these two courses

- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Choose one of these two courses

- PSYC 269 – History and Systems of Psychology Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3

Choose one of these acronyms – the courses are the same

- PSYC 432 – Research Methods II: Introduction Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3

Emphasis Courses

- FMST 201 – Personal Relationships Credits: 3
- PSYC 204 – Personal, Social and Career Development Credits: 3
- PSYC 252 – The Psychology of Adolescence, Youth, and Aging Credits: 3
- PSYC 420 – Human Sexuality Credits: 3
- PSYC 466 – Psychology of the Exceptional Child Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3
- SOCI 480 – Field Experience Credits: 1–8

Required General Education Course — 3

- PSYC 101 – Introduction to Psychology Credits: 3

Cognate — 2+

- GDPC 430 – Introduction to Residence–hall Administration Credits: 2

Recommended:

- GDPC 438 – Workshop Credits: 1–4

Computer Policy

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Family Studies BS

(27 credits must be selected from courses numbered 300 or above)

Core Courses — 33

- BHSC 440 – Topics in _____ Credits: 1–4
- FMST 115 – Introduction to Family Studies Credits: 3
- FMST 201 – Personal Relationships Credits: 3
- FMST 310 – Parent–Child Relationships Credits: 3
- FMST 350 – Family Cultural Perspectives Credits: 3
- FMST 454 – Family Violence Across the Lifespan Credits: 3
- FMST 460 – Family Resource Management Credits: 3
- FMST 470 – Field Experience Credits: 1–8
- PSYC 301 – Human Development—Lifespan Credits: 3
- PSYC 420 – Human Sexuality Credits: 3
- SOCI 440 – Sociology of the Family Credits: 3

Family Studies Electives — 6

- ANTH 420 – Food and Culture Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- PSYC 319 – Stress Management Credits: 3
- PSYC 410 – Introduction to Theories in Counseling & Psychotherapy Credits: 3
- PSYC 466 – Psychology of the Exceptional Child Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3
- SOCI 350 – Social Policy Credits: 2
- SOCI 430 – Gender Roles in Contemporary Society Credits: 3
- SOCI 460 – Death and Grief in Contemporary Society Credits: 2
- SOWK 315 – Values, Ethics and Diversity Credits: 2
and as authorized by advisor. *

Required General Education Course — 3

- PSYC 101 – Introduction to Psychology Credits: 3

Cognates — 15

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- COMM 445 – Family Communication Credits: 3
- FDNT 230 – Nutrition Credits: 3
- PSYC 432 – Research Methods II: Introduction Credits: 3

Choose one of the following three courses

- FNCE 206 – Personal Finance Credits: 2–3
- BSAD 104 – Introduction to Business Credits: 2–3
- BSAD 210 – Small Business Management Credits: 3

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Psychology BA

(21 credits must be selected from courses numbered 300 or above)

Introduction — 3

- PSYC 101 – Introduction to Psychology Credits: 3

Developmental — 3

- PSYC 301 – Human Development—Lifespan Credits: 3 (or other developmental course)

Professional Convention — 1

- PSYC 438 – Workshop Credits: 1–3 (or an equivalent professional convention)

Methodology — 9

- PSYC 432 – Research Methods II: Introduction Credits: 3
- PSYC 433 – Research Methods III: Advanced Research Design—Experimental and Survey Credits: 3
- PSYC 434 – Research Methods IV: Advanced Statistical Analysis and SPSS Credits: 3

Content Courses (Groups A & B) — 15

A minimum of five courses from Groups A & B and/or C

Group A

(a minimum of two courses from this group)

- PSYC 364 – Learning and Behavior Credits: 3
- PSYC 425 – Psycholinguistics Credits: 3
- PSYC 449 – Neuropsychopharmacology Credits: 3
- PSYC 465 – Physiological Psychology Credits: 3
- PSYC 471 – Behavior Modification Credits: 3
- PSYC 445 – Cognitive Psychology Credits: 3

Group B

(a minimum of two courses from this group)

- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- PSYC 454 – Theories of Personality Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3
(The 5th course can be chosen from either Group A, B or C)

Group C

- PSYC 410 – Introduction to Theories in Counseling & Psychotherapy Credits: 3
- PSYC 486 – Psychological Assessment Credits: 3

Cognates — 19–25

- PHIL 224 – Introduction to Philosophy Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Choose all three courses from this group OR choose the 2nd group

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- BIOL 221 – Anatomy and Physiology I Credits: 4
- BIOL 222 – Anatomy and Physiology II Credits: 4

Choose these two courses if you didn't choose the first three

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4

Choose one of these two courses

- SOCI 119 – Principles of Sociology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3

Choose one sociocultural awareness class or experience.

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- BHSC 440 – Topics in _____ Credits: 1–4
- ANTH 200 – Cultural Anthropology Credits: 3

Recommended:

Field Experience

Major Field Test:

Majors are required to take the Major Field Test in Psychology. The exam assesses the following areas: memory and thinking, sensory and physiology, developmental, clinical and abnormal, social, and measurement and methodology

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Psychology, Behavioral Neuroscience Emphasis BS

Behavioral Neuroscience Core — 41–43

- PSYC 180 – Dealing with Your Mind Credits: 3
- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4

Choose one of the following sets of courses:

- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 3

OR

- PHYS 141 – General Physics I Credits: 4

- PHYS 142 – General Physics II Credits: 4

OR

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

Upper Division Core Courses

- BIOL 477 – Neurobiology Credits: 3
- PSYC 364 – Learning and Behavior Credits: 3
- PSYC 445 – Cognitive Psychology Credits: 3

- PSYC 449 – Neuropsychopharmacology Credits: 3

OR

- BIOL 450 – Neuropsychopharmacology Credits: 3

General Education

Completing the Behavioral Neuroscience core meets general education requirements for Interdisciplinary Social Science and both Physical and Life Sciences. Completing the Psychology/BNS major meets the general education requirement for Foundational Social Science.

BS: Psychology

Behavioral Neuroscience — 27

- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3
- PSYC 465 – Physiological Psychology Credits: 3
- two upper division electives from biology, mathematics, biochemistry or psychology

Research Methods:

- PSYC 432 – Research Methods II: Introduction Credits: 3
- PSYC 433 – Research Methods III: Advanced Research Design—Experimental and Survey Credits: 3
- PSYC 434 – Research Methods IV: Advanced Statistical Analysis and SPSS Credits: 3

Research Project:

- PSYC 438 – Workshop Credits: 1–3 (1 credit required)
- PSYC 498 – Research Project in Psychology Credits: 1–3 (2 credits required)

Cognates:

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3
- RELT 385 – Bioethics and Christian Faith Credits: 3

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Psychology, General Program BS

BS: Psychology

Four options are available—the General Program, the Pre–Professional Program, Health Psychology Emphasis, and Behavioral Neuroscience. The Pre–Professional Program is for students planning a graduate degree. Whichever program students

choose, they should consult their advisor in regard to their psychology classes, general or elective classes, and an elective minor. Classes should be chosen with occupational goals in mind. Students planning on graduate school should choose classes related to that area of specialization.

General Program — 40

(27 credits must be selected from courses numbered 300 or above)

Introduction — 3

- PSYC 101 – Introduction to Psychology Credits: 3

Developmental — 3

- PSYC 301 – Human Development—Lifespan Credits: 3 (or other developmental course)

Professional Convention or Field Experience — 1–2

- PSYC 438 – Workshop Credits: 1–3
- (or an equivalent professional convention) Credits: 1–2 **or**
- PSYC 480 – Field Experience Credits: 1–8

Methodology — 3

- PSYC 432 – Research Methods II: Introduction Credits: 3

Content Courses (Groups A, B, C) — 18

A minimum of five courses from Groups A & B

Group A

(a minimum of two courses from this group)

- PSYC 210 – Introduction to Health Psychology Credits: 3
- PSYC 364 – Learning and Behavior Credits: 3
- PSYC 425 – Psycholinguistics Credits: 3
- PSYC 445 – Cognitive Psychology Credits: 3
- PSYC 449 – Neuropsychopharmacology Credits: 3
- PSYC 465 – Physiological Psychology Credits: 3
- PSYC 471 – Behavior Modification Credits: 3

Group B

(a minimum of two courses from this group)

- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- PSYC 454 – Theories of Personality Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3

Group C

(a minimum of one course)

- PSYC 410 – Introduction to Theories in Counseling & Psychotherapy Credits: 3
- PSYC 420 – Human Sexuality Credits: 3
- PSYC 486 – Psychological Assessment Credits: 3

Electives — 11–12

Electives may be chosen from Content Courses not taken to meet minimum requirements. Other PSYC courses in the undergraduate program, or those approved by the advisor/chair.

Cognates — 16–22

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Choose these two courses or two courses from the next group

- BIOL 221 – Anatomy and Physiology I Credits: 4
- BIOL 222 – Anatomy and Physiology II Credits: 4

OR

- BIOL 165 – Foundations of Biology Credits: 5 or 4

- BIOL 166 – Foundations of Biology Credits: 5 or 4

Choose one of the following two courses

- SOCI 119 – Principles of Sociology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3

One Sociocultural awareness class or experience may be met by taking one of the following:

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- BHSC 440 – Topics in _____ Credits: 1–4
This topics course is Cultural Psychology taught in conjunction with an international tour via Andrews; or a student missionary experience, or attending Adventist Colleges Abroad.

Recommended:

Field Experience and a reading knowledge of a foreign language are strongly recommended, particularly for students who plan to take graduate studies in Psychology.

Major Field Test:

Majors are required to take the Major Field Test in Psychology. The exam assesses the following areas: memory and thinking, sensory and physiology, developmental, clinical and abnormal, social, and measurement and methodology.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Psychology, Health Psychology BS

BS: Psychology

Four options are available—the General Program, the Pre–Professional Program, Health Psychology Emphasis, and Behavioral Neuroscience. The Pre–Professional Program is for students planning a graduate degree. Whichever program students choose, they should consult their advisor in regard to their psychology classes, general or elective classes, and an elective minor. Classes should be chosen with occupational goals in mind. Students planning on graduate school should choose classes related to that area of specialization.

Health Psychology — 40–41

(27 credits must be selected from courses numbered 300 or above)

Core courses—21

- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 301 – Human Development—Lifespan Credits: 3 (or other developmental course)
- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 432 – Research Methods II: Introduction Credits: 3
- PSYC 433 – Research Methods III: Advanced Research Design—Experimental and Survey Credits: 3
- PSYC 434 – Research Methods IV: Advanced Statistical Analysis and SPSS Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Emphasis — 18

- PSYC 210 – Introduction to Health Psychology Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3

Choose one of these two courses

- PSYC 319 – Stress Management Credits: 3
- SOCI 420 – Medical Sociology Credits: 3

Choose one of these two courses

- PSYC 465 – Physiological Psychology Credits: 3
- PSYC 454 – Theories of Personality Credits: 3

Choose one of these two courses

- PSYC 471 – Behavior Modification Credits: 3
- PSYC 364 – Learning and Behavior Credits: 3

Professional Convention — 1–2

- PSYC 438 – Workshop Credits: 1–3 Midwest Psychological Convention (or an equivalent professional convention) Must take for 2 credits.

Cognates — 21–24

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- FDNT 230 – Nutrition Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Choose these two courses or the next grouping.

- BIOL 221 – Anatomy and Physiology I Credits: 4
- BIOL 222 – Anatomy and Physiology II Credits: 4

OR

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4

Choose one of these two courses

- CHEM 110 – Introduction to Inorganic and Organic Chemistry Credits: 4
- CHEM 131 – General Chemistry I Credits: 4

Major Field Test:

Majors are required to take the Major Field Test in Psychology. The exam assesses the following areas: memory and thinking, sensory and physiology, developmental, clinical and abnormal, social, and measurement and methodology.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Psychology, Pre–Professional Program BS

BS: Psychology

Four options are available—the General Program, the Pre–Professional Program, Health Psychology Emphasis, and Behavioral Neuroscience. The Pre–Professional Program is for students planning a graduate degree. Whichever program students choose, they should consult their advisor in regard to their psychology classes, general or elective classes, and an elective minor. Classes should be chosen with occupational goals in mind. Students planning on graduate school should choose classes related to that area of specialization.

Pre–Professional Program — 40

(27 credits must be selected from courses numbered 300 or above)

Introduction — 3

- PSYC 101 – Introduction to Psychology Credits: 3

Developmental — 3

- PSYC 301 – Human Development—Lifespan Credits: 3 (or other developmental course)

Professional Convention — 1–2

- PSYC 438 – Workshop Credits: 1–3 (or an equivalent professional convention) This workshop is Midwest Psychological Convention (or an equivalent professional convention)

Methodology — 9

- PSYC 432 – Research Methods II: Introduction Credits: 3
- PSYC 433 – Research Methods III: Advanced Research Design—Experimental and Survey Credits: 3
- PSYC 434 – Research Methods IV: Advanced Statistical Analysis and SPSS Credits: 3

Content Courses (Groups A, B, C) — 18

A minimum of five courses from Groups A & B

Group A

(a minimum of two courses from this group)

- PSYC 364 – Learning and Behavior Credits: 3
- PSYC 425 – Psycholinguistics Credits: 3
- PSYC 445 – Cognitive Psychology Credits: 3
- PSYC 449 – Neuropsychopharmacology Credits: 3
- PSYC 465 – Physiological Psychology Credits: 3
- PSYC 471 – Behavior Modification Credits: 3

Group B

(a minimum of two courses from this group)

- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- PSYC 454 – Theories of Personality Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3

Group C

(a minimum of one course)

- PSYC 410 – Introduction to Theories in Counseling & Psychotherapy Credits: 3
- PSYC 486 – Psychological Assessment Credits: 3

Electives — 5–6

Electives may be chosen from Content Courses not taken to meet minimum requirements, other PSYC courses in the undergraduate program, or those approved by the advisor/chair.

Cognates — 19–25

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Choose these two courses or the following two courses

- BIOL 221 – Anatomy and Physiology I Credits: 4
- BIOL 222 – Anatomy and Physiology II Credits: 4

OR

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4

Choose one of these two courses

- SOCI 119 – Principles of Sociology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3

Choose one sociocultural awareness class or experience. This may be met by taking one of the following courses.

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3

- BHSC 440 – Topics in _____ Credits: 1–4
This topics course is Cultural Psychology taught in conjunction with an international tour via Andrews; or a student missionary experience, or attending Adventist Colleges Abroad.

Recommended:

Field Experience and a reading knowledge of a foreign language are strongly recommended, particularly for students who plan to take graduate studies in Psychology

Major Field Test:

Majors are required to take the Major Field Test in Psychology. The exam assesses the following areas: memory and thinking, sensory and physiology, developmental, clinical and abnormal, social, and measurement and methodology.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student’s second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Sociology BA

30 credits (not including general education courses) are required. Of these, 24 credits must be selected from courses numbered 300 and above.

Core Courses — 15

Introduction:

- SOCI 119 – Principles of Sociology Credits: 3

Methods:

- SOCI 432 – Research Methods II: Introduction Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3

Theory:

- SOCI 474 – Social Thought and Theory Credits: 3

Substantive Areas — 15

Family:

- FMST 201 – Personal Relationships Credits: 3

Criminal Justice:

Choose one of these two courses

- SOCI 315 – Criminology Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3

Health:

Choose one of these two courses

- SOCI 420 – Medical Sociology Credits: 3
- SOCI 415 – Substance Abuse in American Society Credits: 2

Race & Gender:

Choose one of these two courses

- SOCI 425 – Racial and Ethnic Relations Credits: 3

20

- SOCI 430 – Gender Roles in Contemporary Society Credits: 3

Policy:

Choose one of these two courses

- SOCI 350 – Social Policy Credits: 2
- SOCI 455 – Development Policy and Analysis Credits: 3

Required General Education Courses — 9

- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Cognates — 18

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- PSYC 180 – Dealing with Your Mind Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3

Note:

Major field test is required. It is expected that all majors will attend at least one professional conference before graduation.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student’s second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Sociology BS

BS: Sociology 38–39

(27 credits must be selected from courses numbered 300 or above)

Core Courses — 29–30

(Choose three of the following five classes)

- SOCI 119 – Principles of Sociology Credits: 3
- SOCI 420 – Medical Sociology Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- SOCI 430 – Gender Roles in Contemporary Society Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3

Choose one of these two courses

- FMST 201 – Personal Relationships Credits: 3
- SOCI 415 – Substance Abuse in American Society Credits: 2

Choose one of these two courses

- SOCI 315 – Criminology Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3

Electives — 9

(Choose three of the following five classes)

- FMST 310 – Parent–Child Relationships Credits: 3
- SOCI 350 – Social Policy Credits: 2
- SOCI 410 – Social Gerontology Credits: 3
- SOCI 440 – Sociology of the Family Credits: 3
- SOCI 460 – Death and Grief in Contemporary Society Credits: 2

Required General Education Courses — 9

- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Cognates — 15

(The following courses are required choices in your general education or elective program)

- ANTH 200 – Cultural Anthropology Credits: 3
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Recommended:

A reading knowledge of a foreign language is strongly recommended for those planning on graduate work in Sociology.

Major Field Test:

Majors are required to take the Major Field Test in Sociology

Note:

It is expected that all majors will attend at least one professional conference before graduation

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Sociology, Community and International Development BS

Community & International Development — 45

(27 credits must be selected from courses numbered 300 or above)

Community development workers perform a wide array of tasks that enable communities at the local or international level to change and improve various aspects in the lives of their residents. They work in different settings such as inner city agencies, service-learning organizations, community service organizations, community advocacy groups, etc. Additionally community development workers could work overseas in international relief and development agencies as well as for church-based mission programs.

Students qualify for entry into the BS CID when they:

- Earn a minimum GPA of 2.00
- Receive grades of C or better in all required program prerequisite and cognate courses

Behavioral Sciences Core Courses — 15

- SOCI 119 – Principles of Sociology Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3

Emphasis Courses — 30

- SOCI 160 – Introduction to International Development Credits: 3
- SOCI 350 – Social Policy Credits: 2
- SOCI 408 – Emergency Preparedness Credits: 2
- SOCI 421 – Development Theory & Practice Credits: 3
- SOCI 431 – Needs Assessment and Social Policy Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 480 – Field Experience Credits: 1–8 (2)
- ACCT 121 – Fundamentals of Accounting Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3

Choose one of these two courses

- PSYC 315 – Organization and Human Resources Credits: 3
- BSAD 355 – Management and Organization Credits: 3

Cognate — 3

- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3

Field Experience:

Students are required to complete a 200-hour internship: 2 credits of SOCI 480 or, for double majors with the BSW, SOWK 435 plus 1 credit of SOCI 480 (to the BSW internship add 100 hours of CID activities). Internships are normally completed during the senior year.

Recommended:

A reading knowledge of a foreign language is strongly recommended for those planning on graduate work. It is expected that all majors will attend at least one professional conference before graduation.

Note:

Completion of this emphasis prepares a student for Advanced Standing in the Master of Science in Community & International Development (MSCID) program, which allows students to finish the degree in one year instead of the usual two.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Sociology, Deviant Behavior BS

Deviant Behavior — 38–39

(27 credits must be selected from courses numbered 300 or above)

Core Courses — 29–30

Sociology, Emergency Preparedness BS

Emergency Preparedness — 49

Foundation Courses — 39

- SOCI 420 – Medical Sociology Credits: 3

Choose one of these two courses

- SOCI 425 – Racial and Ethnic Relations Credits: 3
- SOWK 315 – Values, Ethics and Diversity Credits: 2
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- FDNT 469 – International Nutrition Credits: 2–3
- PLSC 260 – Introduction to American Law Credits: 3
- PSYC 315 – Organization and Human Resources Credits: 3
- PSYC 319 – Stress Management Credits: 3
- SOCI 160 – Introduction to International Development Credits: 3
- SOCI 350 – Social Policy Credits: 2
- SOCI 432 – Research Methods II: Introduction Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 470 – Demography Credits: 3
- SOWK 460 – Death and Grief in Contemporary Society Credits: 2

Emphasis Courses — 10

- SOCI 408 – Emergency Preparedness Credits: 2
- SOCI 478 – Principles and Practice of Hazards Mitigation Credits: 3
- SOCI 490 – Capstone in Emergency Preparedness (Practicum) Credits: 1–3
- BSAD 355 – Management and Organization Credits: 3

Required General Education Courses — 15

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- BIOL 208 – Environmental Science Credits: 4
- BIOL 260 – General Microbiology Credits: 4
- CHEM 100 – Consumer Chemistry Credits: 4

Cognates — 6

- ACCT 121 – Fundamentals of Accounting Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3

Electives

- ANTH 417 – Cultural and Developmental Anthropology Credits: 3
- BSAD 526 – Emergency Management Credits: 3
- IDSC 680 – Field Practicum Credits: 2
- SOCI 445 – Emergency Planning Credits: 2
- SOCI 449 – Disaster Response and Emergency Operations Credits: 2
- SOWK 477 – Community Assessment and Capacity Mapping Credits: 2

Choose one of these two courses

- COMM 435 – Crisis Communications Credits: 3
- COMM 535 – Crisis Communications Credits: 2

Major Field Test:

Majors are required to take the Major Field Test in Sociology.

Note:

It is expected that all majors will attend at least one professional conference before graduation.

- SOCI 119 – Principles of Sociology Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3
- SOCI 420 – Medical Sociology Credits: 3
- SOCI 430 – Gender Roles in Contemporary Society Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3

Choose one of these two courses

- SOCI 415 – Substance Abuse in American Society Credits: 2
- FMST 201 – Personal Relationships Credits: 3

Emphasis Courses — 9

- FMST 454 – Family Violence Across the Lifespan Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3
- SOCI 315 – Criminology Credits: 3

Required General Education Courses — 9

- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Cognates — 15

(The following courses are required choices in your general education or elective program)

- ANTH 200 – Cultural Anthropology Credits: 3
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Required Cognates for Emphasis — 6

- PSYC 420 – Human Sexuality Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3

Recommended:

A reading knowledge of a foreign language for those planning on graduate work in Sociology.

Major Field Test:

Majors are required to take the Major Field Test in Sociology.

Note:

*It is expected that all majors will attend at least one professional conference before graduation.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Note:

Completion of this emphasis prepares a student for Advanced Standing in the Master of Science in Community and International Development (MSCID) Program.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Sociology, Sociology of the Family BS

Sociology of the Family — 39

(27 credits must be selected from courses numbered 300 or above)

Core Courses — 24

- SOCI 119 – Principles of Sociology Credits: 3
- SOCI 420 – Medical Sociology Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3

Choose one of these two courses

- SOCI 315 – Criminology Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3

Emphasis Courses — 12

- BHSC 440 – Topics in _____ Credits: 1–4
- FMST 201 – Personal Relationships Credits: 3
- FMST 350 – Family Cultural Perspectives Credits: 3
- SOCI 430 – Gender Roles in Contemporary Society Credits: 3

Required General Education Courses — 9

- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3

Cognates — 27

(The following courses are required choices in your general education or elective program)

- ANTH 200 – Cultural Anthropology Credits: 3
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- FMST 310 – Parent–Child Relationships Credits: 3
- FMST 454 – Family Violence Across the Lifespan Credits: 3
- FMST 460 – Family Resource Management Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- PSYC 420 – Human Sexuality Credits: 3
- PSYC 450 – Social Psychology Credits: 3

Electives — 3

Recommended:

A reading knowledge of a foreign language for those planning on graduate work in Sociology.

Major Field Test:

Majors are required to take the Major Field Test in Sociology.

Note:

It is expected that all majors will attend at least one professional conference before graduation.

Computer Policy

In the behavioral sciences, the computer is an indispensable tool for collecting and working with data, accessing scientific reports, and for writing and critical thinking. As a result, the Department of Behavioral Sciences requires students to have a laptop computer in order to meet the requirements of the curriculum; this computer must be purchased by the student's second year in the program or the semester of the first research class, whichever is earlier. Students are responsible for maintaining their computer with the required software appropriate for the courses that they are enrolled in as they progress through the curriculum. A list of required software and minimum specifications that a laptop must meet is available in the Department of Behavioral Sciences office; use of the computer varies by course.

Undergraduate Minors

Anthropology Minor

Minors

All minors require that students earn at least 14 credits in courses numbered 300 and above.

Minor in Anthropology (20)

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3

Choose one of these two courses

- ANTH 455 – Ethnography Credits: 3
- ANTH 496 – Supervised Fieldwork in Anthropology or Archaeology Credits: 1–8

Note:

Students interested in emphasizing archaeology should also select:

- ANTH 205 – Introduction to Archaeology Credits: 3
- ANTH 435 – Museum and Lab Methods Credits: 3

Cognates

Recommended cognates for students interested in archaeology include:

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- SOCI 160 – Introduction to International Development Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3

Behavioral Sciences Minor

Minors

All minors require that students earn at least 14 credits in courses numbered 300 and above.

Minor in Behavioral Sciences (20)

Selected from at least three of the following five areas: anthropology, family studies, geography, psychology or sociology. Students choosing this minor should consult with the chair of the department.

Community and International Development Minor

Minors

All minors require that students earn at least 14 credits in courses numbered 300 and above.

Minor in Community and International Development (20)

- ACCT 121 – Fundamentals of Accounting Credits: 3
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- SOCI 160 – Introduction to International Development Credits: 3
- SOCI 408 – Emergency Preparedness Credits: 2
- SOCI 421 – Development Theory & Practice Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3

Choose one of these two courses

- PSYC 315 – Organization and Human Resources Credits: 3
- BSAD 355 – Management and Organization Credits: 3

General Education requirement:

- ANTH 200 – Cultural Anthropology Credits: 3

Other recommended course:

- SOCI 480 – Field Experience Credits: 1–8 (2)
(Students will complete a minimum 200–hr internship.)

Advanced Standing:

A minor in Community and International Development progresses toward advanced study. Students with this minor who wish to pursue the Master of Science in Community and International Development (MSCID) will qualify for advanced standing (one–year degree) if they also take at least one of the following:

- SOCI 350 – Social Policy Credits: 2
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3
- SOCI 455 – Development Policy and Analysis Credits: 3

Family Studies Minor

Minors

All minors require that students earn at least 14 credits in courses numbered 300 and above.

Minor in Family Studies (20)

- FDNT 230 – Nutrition Credits: 3
- FMST 115 – Introduction to Family Studies Credits: 3
- FMST 201 – Personal Relationships Credits: 3
- FMST 310 – Parent–Child Relationships Credits: 3
- FMST 460 – Family Resource Management Credits: 3
- Additional credits chosen in consultation with program advisor.

Psychology Minor

Minors

All minors require that students earn at least 14 credits in courses numbered 300 and above.

Minor in Psychology (20)

- PSYC 101 – Introduction to Psychology Credits: 3

At least one of:

- PSYC 364 – Learning and Behavior Credits: 3

- PSYC 445 – Cognitive Psychology Credits: 3
- PSYC 449 – Neuropsychopharmacology Credits: 3
- PSYC 465 – Physiological Psychology Credits: 3
- PSYC 471 – Behavior Modification Credits: 3

And at least one of:

- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- PSYC 454 – Theories of Personality Credits: 3
- PSYC 460 – Psychology of Abnormal Behavior Credits: 3
- Remaining 11 credits to be chosen from the other PSYC courses.

Sociology Minor

Minors

All minors require that students earn at least 14 credits in courses numbered 300 and above.

Minor in Sociology (20)

- SOCI 119 – Principles of Sociology Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3

Choose one of these four courses:

- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- FMST 201 – Personal Relationships Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- SOCI 430 – Gender Roles in Contemporary Society Credits: 3

Choose one of these three courses:

- SOCI 315 – Criminology Credits: 3
- SOCI 345 – Juvenile Delinquency Credits: 3
- SOCI 415 – Substance Abuse in American Society Credits: 2

Choose one of these three courses:

- SOCI 160 – Introduction to International Development Credits: 3
- SOCI 420 – Medical Sociology Credits: 3
- SOCI 470 – Demography Credits: 3

Graduate Program Policies/Administration: On–Campus

The following details are related to the on–campus Community and International Development Program.

Contact Info

Buller Hall, Room 203
Phone: 269–471–6538; 269–471–6675
Fax: 269–471–3108
E–mail: cidp@andrews.edu
www.andrews.edu/cidp

Administration

Joel Raveloharimisy, *Director*

Program Description

The Department of Behavioral Sciences offers master's–level education leading to a Master of Science in Community & International Development (MSCID). The competencies graduates are expected to acquire include social–science foundations of community and international development, especially with regard to understanding the causes of poverty and the meaning of people–centered development; skills related to planning, implementing, and evaluating development projects including grantsmanship; knowledge of basic principles of organizational behavior; leadership and management as they relate to not–for–profit organizations; understanding of ethical principles and financial analysis for assuring individual and organizational accountability; competency in at least one concentration area of development emphasis to meet the student's career goals; mastery of social research methods appropriate to the chosen field of concentration, and the ability to communicate effectively to stakeholders about community development program and plans. Courses are taught on the campus of

Andrews University: students who are interested may attend up to one off-campus intensive session with the MS in International Development.

Depending in part on previous work experience, graduates who pursue the Master of Science in Community and International Development may find employment working for inner-city development agencies, education based service-learning organizations, faith-based community service organizations, grass-roots community advocacy groups, national and international faith-based NGOs, United Nations organizations, government organizations, and other development and relief agencies. Graduates are not limited by their concentration to opportunities in the humanitarian industry as the MSCID training make students viable candidates for a host of consultancy positions requiring persons with skills in grant writing, not-for-profit administration, education and philanthropy.

Graduate Program Policies/Administration: Off-Campus **The following details are related to the off-campus International Development Program.**

Contact Info

Buller Hall, Room 226
Phone: 269-471-3668
Fax: 269-471-3108
E-mail: idp@andrews.edu
www.andrews.edu/idp

Administration

Dawn Dulhunty, *Director*
Romulus Chelbegean, *Concentration Advisor*
Lillianne Doukhan, *Concentration Advisor*
Tevni Grajales Guerra, *Concentration Advisor*
Herb Helm, *Concentration Advisor*
Darius Jankiewicz, *Concentration Advisor*
Patricia Mutch, *Concentration Advisor*
Marcella Myers, *Concentration Advisor*
David Steen, *Concentration Advisor*

Program Description

Education at Andrews University has always been rooted in the concept of Christian service. Educators, administrators, nurses, agronomists, and various technicians have developed schools, hospitals, agricultural programs, and a host of other institutions and facilities that can improve the quality of life for people everywhere. Through its Off-Campus Programs, Andrews University has made it possible for students to earn degrees at off-campus locations around the world. The International Development Program is one such option. The principal purpose of this program is to provide a venue for leadership training of professionals whose work responsibilities and life situation do not permit a return to full-time study at a university campus. The interdisciplinary program takes three to five years to complete and it draws on the strength of all six schools of the university. Students attend 3-4 week intensive sessions at extension sites in various locations around the world. The goal of the Program is to strengthen organizations in project management skills and administration. The ultimate goal is to enable graduates to acquire whatever capacities they need to be effective agents in assisting communities to attain well-being for its present members and their future generations.

Administration of the Program

The Master of International Development Administration degree follows an off-campus format and is known as the International Development Program (IDP). This program is administered by a number of committees. The IDP Coordinating Committee includes program administrators and faculty (current and emeritus) of Andrews University who regularly attend the off-campus sessions to advise students, provide guidance on curricula, selection of teachers, and student learning outcomes. Program recommendations are also sent to the following committees for appropriate action: IDP Council, Department of Behavioral Sciences, Off-campus Programs, CAS Graduate Council, and the University Graduate Council. Further, these committees receive council from the IDP Advisory Board, which consists of academics, representatives of NGO organizations, and church administrators.

The day-to-day administration of the program is the responsibility of the International Development Program office headed by the Director of the International Development Program.

Teaching Sites

The International Development Program offers its classes in multiple regions and languages around the world. Venues and languages are subject to change but

currently include Canada (English), Chile (Spanish), Ghana (French and English), Italy (English), Kenya (English), Rwanda (French and English), South Africa (English), and soon to be back in Asia Pacific. A university campus is the preferred venue in each region for the teaching sessions.

Notice for Students and Public

The Master of International Development Administration: International Development degree is offered in Alberta, Canada, pursuant to the written approval of the Minister of Advanced Education and Technology effective 01 September 2011 having undergone a quality assessment process and been found to meet the criteria established by the Minister. Nevertheless, prospective students are responsible for satisfying themselves that the program and the degree will be appropriate to their needs (for example, acceptable to potential employers, professional licensing bodies, or other educational institutions).

Masters

Community and International Development, One-Year Advanced-Standing Program MSCID – On Campus

The advanced standing one-year program requires 30-35 credits of coursework and at least 300 hours of internship.

This alternative will allow students to finish their MSCID in one year, provided they have taken certain courses or courses of similar content during their undergraduate years in college. Students will be admitted into the advanced standing program if they have taken at least 7 of the following courses or their equivalents: ACCT 121 – Fundamentals of Accounting, Research Methods I, II, III, IV (BHSC 230, SOCI 432, SOCI 433, SOCI 434), SOCI 408 – Emergency Preparedness, BSAD 355 – Management and Organization or PSYC 315 – Organization and Human Resources, SOCI 421 – Development Theory & Practice, SOCI 431 – Needs Assessment and Social Policy, and Social Policy.

Advanced Standing curriculum is based on Regular Standing requirements, with course requirements taken prior to admission as prerequisites waived and credits reduced to no fewer than 30. Students who have taken at least 5 of these prerequisites may be accepted provisionally into the advanced standing program. Provisional status will remain in effect until the prerequisites are completed.

Students majoring in Anthropology, Psychology or Sociology with an emphasis in Emergency Preparedness or Public Health may refer to those sections of the bulletin for specific information on how these prerequisites can be integrated into their major.

In addition to having completed the prerequisites listed above and meeting the general admission requirements of the Andrews University School of Graduate Studies & Research, applicants to the one-year Advanced Standing program should also have the following:

- A bachelor's degree from an accredited college or university;
- An overall undergraduate GPA of 3.00 or higher, 3.50 or higher in 8 or more credits of previously taken graduate courses graded A-F. Students may be admitted provisionally with a GPA of 2.6 or higher. Such students must maintain a GPA of 3.0 or higher during their first 12 graduate credits to continue in the program;
- Completed Graduate Application packet.

The director of the program may request a personal interview or a third reference and/or other information.

Students who apply for admission to the MSCID program have two options related to the Graduate Record Exam (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. Scholarship amounts are based on the score achieved on the exam. For students who do not seek a graduate scholarship based on the GRE score, the GRE is not required.

Incoming graduate students who have finished their undergraduate degree in a relevant field or at a different university, but lack some courses with similar content required for advanced standing in the MSCID program, may take the CLEP test (College-Level Examination Program) so that they may qualify for advanced standing. Decisions regarding what classes could be accepted through CLEP will be taken on an individual basis.

Recommended: A reading knowledge of a foreign language is strongly recommended for those planning on graduate work.

Advanced Standing—30-35

Students must complete at least 7 of the following classes to be eligible for Advanced Standing. Those with at least 5 classes may be accepted provisionally

into Advanced Standing, and the missing prerequisites will be taken in addition to the regular requirements for the MSCID.

- ACCT 121 – Fundamentals of Accounting Credits: 3 **or**
- ACCT 501 – Survey of Accounting Credits: 2
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- SOCI 432 – Research Methods II: Introduction Credits: 3 **or**
- SOCI 532 – Research Methods II: Introduction Credits: 2
- SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 3 **or**
- SOCI 533 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 2
- SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 3 **or**
- SOCI 534 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 2
- SOCI 421 – Development Theory & Practice Credits: 3 **or**
- CIDS 520 – Development Theory and Practice Credits: 3
- SOCI 408 – Emergency Preparedness Credits: 2 **or**
- SOCI 508 – Emergency Preparedness Credits: 2
- SOCI 455 – Development Policy and Analysis Credits: 3 **or**
- CIDS 555 – Development Policy and Analysis Credits: 3
- PSYC 315 – Organization and Human Resources Credits: 3 **or**
- CIDS 515 – Organization and Human Resources Credits: 3 **or**
- BSAD 515 – Organizational Behavior & Leadership Credits: 3 **or**
- BSAD 530 – Leadership & Management of Not–for–Profit Organizations Credits: 3
- SOCI 431 – Needs Assessment and Social Policy Credits: 3 **or**
- CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning Credits: 3

Concentration Areas

The concentration area is selected by individual choice and will draw on Behavioral Sciences faculty strengths and utilize courses offered throughout the university. The program director/advisor, in consultation with the student, will select a minimum of four courses for 12 credits of elective courses related to the chosen concentration to meet the student’s career goals. Students interested in international exposure but who cannot afford an overseas internship may elect to take a Study Tour and use applicable credits toward those required for the concentration. The number of tour credits applied to the degree must not exceed what is allowed by university policy (see Graduate Academic Information section for details). The tour should be relevant to the student’s area of concentration. The student will submit a plan and rationale for the concentration requirements to the program director/advisor for approval.

Students, in consultation with the program director, may choose area of concentration that aligns with their research and career interests. Concentration areas are listed below, along with courses a student may take in each area. Students may, in consultation with their advisor, substitute courses within a concentration area. Additionally, students may choose a different area of concentration, provided they provide documentation that they are able to meet the general concentration requirements (adequate credits, appropriate field practicum, and research projects are available).

Choose 12 credits from classes listed in the concentration of choice.

Advocacy

- CIDS 560 – Political Economy of Development Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5
- CIDS 580 – Organizational & Community Leadership Credits: 1–2
- PREL 510 – Advancement and Communication Credits: 2
- PLSC 585 – Seminar in International Relations Credits: 3
- SOCI 515 – Racial and Ethnic Relations Credits: 3

Development Communication

- CIDS 575 – Topics in Community & International Development Credits: 1–5
- COMM 536 – Issues in Intercultural Communication Credits: 2–3
- COMM 540 – Communication in Development Practice Credits: 2–3
- COMM 590 – Graduate Seminar in Video Advocacy Credits: 2–3
- JOUR 450 – Multimedia Journalism Credits: 3
- PREL 510 – Advancement and Communication Credits: 2

Development Education

- EDCI 650 – Curriculum Design and Development Credits: 3
- EDCI 696 – Project Implementation Credits: 1–3
- CIDS 550 – Education for Sustainable Development Credits: 3
- SOCI 565 – Demography Credits: 3
- EDCI 684 – International Perspectives on Curriculum Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5 (3)

Emergency Preparedness & Management

- COMM 535 – Crisis Communications Credits: 2
- CIDS 575 – Topics in Community & International Development Credits: 1–5 (3)
- SOCI 514 – Migrant & Refugee Issues Credits: 2–3
- SOCI 549 – Disaster Response and Emergency Operations Credits: 2
- SOCI 555 – Emergency Planning Credits: 2
- SOCI 578 – Principles and Practice of Hazards Mitigation Credits: 3

Gender and Development

- CIDS 575 – Topics in Community & International Development Credits: 1–5
- CIDS 585 – Gender, Economic Development, and Poverty Reduction Credits: 3
- CIDS 590 – Issues in Gender and Development Credits: 3
- SOCI 510 – Gender Roles in Contemporary Society Credits: 3
- SOCI 560 – Family Resource Management Credits: 3

Global Health

- CIDS 575 – Topics in Community & International Development Credits: 1–5
- FDNT 545 – Nutrition and Wellness Programs Credits: 2–4
- FDNT 570 – Maternal and Child Health Credits: 3
- NRSO 517 – Health Care Systems Credits: 3
- SOCI 554 – Community Health & Human Disease Credits: 2

NGO Development and Operations

- ACCT 455 – Accounting for Not–for–Profit Organizations Credits: 3
- BSAD 556 – Topics in Entrepreneurship
- BSAD 560 – Intercultural Business Relations Credits: 3
- BSAD 670 – Management of Human Resources Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5
- COMM 536 – Issues in Intercultural Communication Credits: 2–3
- MKTG 540 – Marketing Management in Not–for–Profit Organizations Credits: 3

Choose one of the following courses

- BSAD 515 – Organizational Behavior & Leadership Credits: 3
- BSAD 530 – Leadership & Management of Not–for–Profit Organizations Credits: 3
- (Concentration area selection must not also apply toward core.)

Youth and Sustainable Development

- CHMN 553 – The Church and Social Issues Credits: 2–3
- CHMN 574 – Perspectives in Church Marketing Credits: 2–3
- CHMN 623 – Innovative Evangelism Credits: 2–3
- CHMN 656 – Holistic Small Groups Credits: 2–3
- CIDS 550 – Education for Sustainable Development Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5

- CIDS 580 – Organizational & Community Leadership Credits: 1–2
- CIDS 590 – Issues in Gender and Development Credits: 3
- DSRE 608 – Youth and Young Adults in Contemporary Culture Credits: 2–3
- DSRE 626 – Ministry to At-Risk Youth Credits: 2–3
- DSRE 564 – Advanced Youth and Young Adult Ministry Leadership Credits: 2–3
- DSRE 636 – Seminar in Youth Ministry Credits: 2–3
- DSRE 678 – Spiritual Nurture of Children Credits: 2–3
- SOCI 510 – Gender Roles in Contemporary Society Credits: 3
- SOCI 515 – Racial and Ethnic Relations Credits: 3

Assistantships

Students have the opportunity to apply for graduate assistantships—administrative, teaching or research.

Additional Information

The schools and departments regulate policies that govern the elective courses offered as part of the concentration package and some may not be available. Some elective courses may require prerequisites and should be discussed in advance with the program director/advisor for guidance in completing the concentration.

The Field Practicum and Research Project/Thesis will necessarily be related to the area of concentration in order to provide students with an in-depth understanding of the chosen area, and with the possibility of applying course work in practice. Students are required to undertake a 300-hour internship through a field placement with a domestic, national, or international organization/project. Internships are based on prior approval and advice from the program director. Arrangements for the internship will be made by the program director/advisor pending availability and feasibility of the placement proposed by the student.

Community and International Development, Two-Year Regular Program MSCID – On-Campus

The regular standing two-year program requires 39–40 credits of coursework and internship.

Applicants to the regular two-year program must meet the following criteria, in addition to other general admission requirements of the Andrews University School of Graduate Studies & Research:

- A bachelor's degree from an accredited college or university;
- An overall undergraduate GPA of 3.00 or 3.50 in 8 or more credits of previously taken graduate courses graded A–F. Students may be admitted provisionally with a GPA of 2.6 or higher. Such students must maintain a GPA of 3.0 or higher during their first 12 graduate credits to continue in the program;
- Completed Graduate Application packet.
- Completed coursework in Accounting, Statistics and Research II. Provisional acceptance may be granted without these courses, and the student would be expected to take them during the first year of enrollment. Credits for prerequisites do not apply toward the MSCID.

The director of the program may request a personal interview or a third reference and/or other information.

Students who apply for admission to the MSCID program have two options related to the Graduate Record Exam (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. Scholarship amounts are based on the score achieved on the exam. For students who do not seek a graduate scholarship based on the GRE score, the GRE is not required.

Recommended: A reading knowledge of a foreign language is strongly recommended for those planning on graduate work.

Degree Requirements

Satisfactory completion of the curriculum listed below:

Regular Standing—39–40

CIDP Core Courses—10

- CIDS 520 – Development Theory and Practice Credits: 3
- CIDS 555 – Development Policy and Analysis Credits: 3
- SOCI 508 – Emergency Preparedness Credits: 2
- ANTH 517 – Cultural and Developmental Anthropology Credits: 2

Development Management—11

- CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning Credits: 3
- CIDS 535 – Budgeting, Fundraising & Grantsmanship Credits: 2
- CIDS 536 – Development Design & Evaluation Credits: 3

Choose one of these two courses

- CIDS 515 – Organization and Human Resources Credits: 3
- BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3

Research Tools & Skills—6–7

- SOCI 533 – Research Methods III: Advanced Research Design—Experimental and Survey Credits: 2
- SOCI 534 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 2
- CIDS 670 – Comprehensive Exam Credits: 0

Choose one of these two courses

- CIDS 698 – Research Project Credits: 2–3
- CIDS 699 – Master's Thesis Credits: 3–4

Practicum—1

- CIDS 680 – Field Practicum Credits: 1–2

Concentration Electives—12

Concentration Areas

The concentration area is selected by individual choice and will draw on Behavioral Sciences faculty strengths and utilize courses offered throughout the university. The program director/advisor, in consultation with the student, will select a minimum of four courses for 12 credits of elective courses related to the chosen concentration to meet the student's career goals. Students interested in international exposure but who cannot afford an overseas internship may elect to take a Study Tour and use applicable credits toward those required for the concentration. The number of tour credits applied to the degree must not exceed what is allowed by university policy (see Graduate Academic Information section for details). The tour should be relevant to the student's area of concentration. The student will submit a plan and rationale for the concentration requirements to the program director/advisor for approval.

Students, in consultation with the program director, may choose area of concentration that aligns with their research and career interests. Concentration areas are listed below, along with courses a student may take in each area. Students may, in consultation with their advisor, substitute courses within a concentration area. Additionally, students may choose a different area of concentration, provided they provide documentation that they are able to meet the general concentration requirements (adequate credits, appropriate field practicum, and research projects are available).

Choose 12 credits from classes listed in the concentration of choice.

Advocacy

- CIDS 560 – Political Economy of Development Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5
- CIDS 580 – Organizational & Community Leadership Credits: 1–2
- PREL 510 – Advancement and Communication Credits: 2
- PLSC 585 – Seminar in International Relations Credits: 3
- SOCI 515 – Racial and Ethnic Relations Credits: 3

Development Communication

- CIDS 575 – Topics in Community & International Development Credits: 1–5
- COMM 536 – Issues in Intercultural Communication Credits: 2–3
- COMM 540 – Communication in Development Practice Credits: 2–3
- COMM 590 – Graduate Seminar in Video Advocacy Credits: 2–3
- JOUR 450 – Multimedia Journalism Credits: 3
- PREL 510 – Advancement and Communication Credits: 2

Development Education

- EDCI 650 – Curriculum Design and Development Credits: 3

- EDCI 696 – Project Implementation Credits: 1–3
- CIDS 550 – Education for Sustainable Development Credits: 3
- SOCI 565 – Demography Credits: 3
- EDCI 684 – International Perspectives on Curriculum Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5 (3)

Emergency Preparedness & Management

- COMM 535 – Crisis Communications Credits: 2
- CIDS 575 – Topics in Community & International Development Credits: 1–5 (3)
- SOCI 514 – Migrant & Refugee Issues Credits: 2–3
- SOCI 549 – Disaster Response and Emergency Operations Credits: 2
- SOCI 555 – Emergency Planning Credits: 2
- SOCI 578 – Principles and Practice of Hazards Mitigation Credits: 3

Gender and Development

- CIDS 575 – Topics in Community & International Development Credits: 1–5
- CIDS 585 – Gender, Economic Development, and Poverty Reduction Credits: 3
- CIDS 590 – Issues in Gender and Development Credits: 3
- SOCI 510 – Gender Roles in Contemporary Society Credits: 3
- SOCI 560 – Family Resource Management Credits: 3

Global Health

- CIDS 575 – Topics in Community & International Development Credits: 1–5
- FDNT 545 – Nutrition and Wellness Programs Credits: 2–4
- FDNT 570 – Maternal and Child Health Credits: 3
- NRSG 517 – Health Care Systems Credits: 3
- SOCI 554 – Community Health & Human Disease Credits: 3

NGO Development and Operations

- ACCT 455 – Accounting for Not–for–Profit Organizations Credits: 3
- BSAD 556 – Topics in Entrepreneurship
- BSAD 560 – Intercultural Business Relations Credits: 3
- BSAD 670 – Management of Human Resources Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5
- COMM 536 – Issues in Intercultural Communication Credits: 2–3
- MKTG 540 – Marketing Management in Not–for–Profit Organizations Credits: 3

Choose one of the following courses

- BSAD 515 – Organizational Behavior & Leadership Credits: 3
- BSAD 530 – Leadership & Management of Not–for–Profit Organizations Credits: 3
- (Concentration area selection must not also apply toward core.)

Youth and Sustainable Development

- CHMN 553 – The Church and Social Issues Credits: 2–3
- CHMN 574 – Perspectives in Church Marketing Credits: 2–3
- CHMN 623 – Innovative Evangelism Credits: 2–3
- CHMN 656 – Holistic Small Groups Credits: 2–3
- CIDS 550 – Education for Sustainable Development Credits: 3
- CIDS 575 – Topics in Community & International Development Credits: 1–5
- CIDS 580 – Organizational & Community Leadership Credits: 1–2
- CIDS 590 – Issues in Gender and Development Credits: 3
- DSRE 608 – Youth and Young Adults in Contemporary Culture Credits: 2–3
- DSRE 626 – Ministry to At–Risk Youth Credits: 2–3
- DSRE 564 – Advanced Youth and Young Adult Ministry Leadership Credits: 2–3
- DSRE 636 – Seminar in Youth Ministry Credits: 2–3
- DSRE 678 – Spiritual Nurture of Children Credits: 2–3
- SOCI 510 – Gender Roles in Contemporary Society Credits: 3
- SOCI 515 – Racial and Ethnic Relations Credits: 3

Assistantships

Students have the opportunity to apply for graduate assistantships—administrative, teaching or research.

Additional Information

The schools and departments regulate policies that govern the elective courses offered as part of the concentration package and some may not be available. Some elective courses may require prerequisites and should be discussed in advance with the program director/advisor for guidance in completing the concentration.

The Field Practicum and Research Project/Thesis will necessarily be related to the area of concentration in order to provide students with an in–depth understanding of the chosen area, and with the possibility of applying course work in practice.

Students are required to undertake a 300–hour internship through a field placement with a domestic, national, or international organization/project. Internships are based on prior approval and advice from the program director. Arrangements for the internship will be made by the program director/advisor pending availability and feasibility of the placement proposed by the student.

International Development, International Development Emphasis MIDA – Off–Campus

The International Development emphasis is to meet the evolving needs of professionals to advance their field of interest, whether it is humanitarian work, economic development, international business, health, or other professions involved with social, cultural, and political challenges within communities. It is a program to build capacity in leadership based on principles of excellence, justice, and advocacy to embrace sustainable partnerships.

Core Courses—29

Social Science Foundations—8

- ANTH 517 – Cultural and Developmental Anthropology Credits: 2
- CIDS 520 – Development Theory and Practice Credits: 3
- GDPC 623 – Development Research and Applied Statistics Credits: 3

Planning/Evaluation—6

- CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning Credits: 3
- CIDS 536 – Development Design & Evaluation Credits: 3

Management—8

- BSAD 515 – Organizational Behavior & Leadership Credits: 3
- BSAD 530 – Leadership & Management of Not–for–Profit Organizations Credits: 3
- COMM 540 – Communication in Development Practice Credits: 2–3

Individual and Organizational Accountability—7

- ACCT 625 – Financial Analysis and Reporting Credits: 3
- IDSC 610 – Ethics in Development Credits: 2
- PLSC 525 – Public Policy, Civil Society and Development Credits: 2–3

Concentration—10

Concentration topics include, but are not limited to: Advocacy, Agro Forestry, Civil Society, Cross Cultural Relations, Development Policies of Government and Religion, Disaster Preparedness, Education, Environmental Studies, Food Security, Gender and Development, International Agriculture, Microenterprise, NPO Policies and Operations, Peace and Conflict Resolution, Poverty Mitigation, and Public Health.

Development Concentration—5

- IDSC 597 – Portfolio Credits: 1
- IDSC 635 – Professional Training: Area of Concentration Credits: 3
- IDSC 696 – Specialization Essay: Area of Concentration Credits: 1

Research and Practicum Requirements—5

- IDSC 680 – Field Practicum Credits: 2

- IDSC 697 – Research Project Credits: 3

Total Credits —39

Concentrations in International Development

Students in the International Development Program are required to complete a concentration involving a minimum of ten semester credits in a selected specialization area. The majority of the Concentration courses are completed in an independent format. This allows the student's specialization area to be uniquely tailored to suit his/her needs and professional goals. A concentration area is selected in consultation with the Concentration Advisor during the first two years of study. Once a topic has been decided, a Concentration Mentor is assigned who, together with the Concentration Advisor, guides the student through the concentration requirements.

IDP Admission Requirements

To be admitted to regular standing into the International Development Program, students must

- Qualify for general admission into graduate studies at Andrews University
- Hold a four-year baccalaureate degree from an accredited American university or senior college, or its equivalent from a comparable institution outside the U.S.
- Demonstrate adequate undergraduate preparation in the proposed field of graduate study and in general education.
- Indicate ability to handle master's-level work in the language of instruction.

Note:

- Access to email communication is compulsory for participation in this program.
- The Graduate Record Examination (GRE) transcript requirement is waived for students in the overseas program.
- TOFEL is waived for students in this program.

For More Information

See "Graduate Program Policies/Administration: Off-Campus" for more information.

International Development, Organizational Leadership Emphasis MIDA – Off Campus

The mission of the Organizational Leadership emphasis is to develop trained leadership to meet the needs of a growing church membership, a growth which will place significant demands on support organizations and other church institutions. Such leaders will develop skills based on the concepts of servant leadership, will understand and practice leadership as a collaborative process, and will demonstrate appropriate administrative skills in research, strategic approaches to program planning and evaluation, finance, communication, and ethics along with skills in a specific area of leadership. Concentrations may include church administration, community and international development, or other concentrations as requested and approved.

Core Courses—34

Social Science Foundations—8

- ANTH 517 – Cultural and Developmental Anthropology Credits: 2
- CIDS 520 – Development Theory and Practice Credits: 3
- GDCP 623 – Development Research and Applied Statistics Credits: 3

Planning/Evaluation—9

- CHMN 526 – Conflict Management in the Church Credits: 2–3
- IDSC 620 – Strategic Planning in Global Leadership Credits: 3
- IDSC 630 – Program Design and Evaluation Credits: 3

Management—9

- BSAD 515 – Organizational Behavior & Leadership Credits: 3
- BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3

- COMM 540 – Communication in Development Practice Credits: 2–3

Individual and Organizational Accountability—8

- ACCT 625 – Financial Analysis and Reporting Credits: 3
- PLSC 525 – Public Policy, Civil Society and Development Credits: 2–3
- THST 634 – Christian Social Ethics Credits: 2–3

Concentration—5

Concentration topics include but are not limited to Church Administration; Community and International Development.

- IDSC 597 – Portfolio Credits: 1
- IDSC 696 – Specialization Essay: Area of Concentration Credits: 1
- IDSC 697 – Research Project Credits: 3

Total Credits —39

IDP Admission Requirements

To be admitted to regular standing into the International Development Program, students must

- Qualify for general admission into graduate studies at Andrews University
- Hold a four-year baccalaureate degree from an accredited American university or senior college, or its equivalent from a comparable institution outside the U.S.
- Demonstrate adequate undergraduate preparation in the proposed field of graduate study and in general education.
- Indicate ability to handle master's-level work in the language of instruction.

Note:

- Access to email communication is compulsory for participation in this program.
- The Graduate Record Examination (GRE) transcript requirement is waived for students in the overseas program.
- TOFEL is waived for students in this program.

For More Information

See "Graduate Program Policies/Administration: Off-Campus" for more information.

Masters Dual Degrees

Master of Science in Community and International Development/Master of Social Work, MSCID/MSW

Dual Degree Program Description

Andrews University has chosen to explore a collaborative between the Community & International Development Program (CIDP) and the Department of Social Work in the College of Arts & Sciences to prepare students for service in occupations where social work and international development intersect. Social Workers, particularly those in the areas of Administration and Development and International Social Work, may have an interest in international work. In such situations, the MSCID could equip them with a complementary skill set. Likewise, development and relief workers often find themselves in situations where social work skills in counseling and therapy would be useful. In addition, the MSCID/MSW collaborative allows for a greater breadth of employment opportunities for students.

MSCID Degree Requirements – 39–40 Credits

CIDP Core Courses – 10 Credits

- CIDS 520 – Development Theory and Practice Credits: 3
- SOCI 508 – Emergency Preparedness Credits: 2
- ANTH 517 – Cultural and Developmental Anthropology Credits: 2
- Remaining 3 credit hours satisfied by SOWK 630 – Policy for Social Change

Development Management – 11 Credits

- CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning Credits: 3
- CIDS 536 – Development Design & Evaluation Credits: 3
- CIDS 535 – Budgeting, Fundraising & Grantsmanship Credits: 2

Choose one of the following three courses:

- CIDS 515 – Organization and Human Resources Credits: 3
- BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3
- BSAD 515 – Organizational Behavior & Leadership Credits: 3

Research Tools & Skills – 6–7 Credits

- SOCI 533 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 2
- SOCI 534 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 2
- CIDS 670 – Comprehensive Exam Credits: 0
- CIDS 698 – Research Project Credits: 2–3 OR CIDS 699 – Master's Thesis Credits: 3–4

Practicum – 1 Credit

Field experience must be planned in consultation with both programs in order to satisfy all requirements.

- Satisfied by: SOWK 635 – Advanced Field Experience Credits: 1–5

Concentration Electives – 12 Credits

- SOWK 660 – Advanced Practice Evaluation
- SOWK core credits may be applied to a CIDP concentration at the discretion of the CIDP Program Director.

MSW Degree Requirements

Basic Courses

- SOWK 501 – Foundations of Practice I Credits: 4
- SOWK 502 – Foundations of Practice II Credits: 4
- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 531 – Human Behavior and the Social Environment I Credits: 2
- SOWK 532 – Human Behavior and the Social Environment II Credits: 2
- SOWK 550 – Social Policy Credits: 2
- SOWK 561 – Social Work Research I Credits: 2
- SOWK 562 – Social Work Research II Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience

- SOWK 535 – Generalist Field Experience Credits: 4 = 400 hours
- SOWK 510 – Generalist Field Seminar Credits: .5, .5
- SOWK 635 – Advanced Field Experience Credits: 5 = 500 hours
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Electives – 10 Credits

MSW Emphasis Options

Administration & Development Emphasis

- CIDS 520 – Development Theory and Practice Credits: 3

Choose one of the following courses

- CIDS 515 – Organization and Human Resources Credits: 3 **OR** BSAD 515 – Organizational Behavior & Leadership Credits: 3 **OR** BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3

International Social Work Emphasis

- CIDS 536 – Development Design & Evaluation Credits: 3 (Satisfies SOWK 675 – Topics: Grantwriting Credits: 1)
- SOWK 537 – International Social Work Credits: 2

Collaborative Program Objectives

1. To prepare students for various forms of work in which clinical and administrative skills in development and social work are needed;
2. To enable students to integrate development and social work knowledge, values, and skills into a multifaceted approach to service, thereby enhancing their value in the world.

Distinctive Features of the Program

The program is designed to give students an integrated approach to both international development and social work. Students who take a social work emphasis in Administration and Development and International Social Work can choose a dual degree with CIDP.

Admission Requirements

Applicants to the MSCID/MSW dual degree program typically will have received a bachelor's degree (BA, BS, BSW) from an accredited four-year college or university in the U.S., or hold an equivalent educational credential from another country. Application must be made separately to both the MSDIC and MSW programs. Acceptance into one program does not guarantee acceptance into the other. Applicants must meet the admissions requirements for each program, including all required prerequisites for each degree. Students in both programs must meet the following minimum requirements:

1. Students must maintain a minimum cumulative GPA of 3.0;
2. No grade of D or F (or U) may count toward either degree.

Credits for Each Program

MSCID students are required to complete 39–40 credit hours for the two-year regular program, which includes 12 elective credits (minimum of 4 courses). Students with certain prerequisites may qualify for the 30-credit advanced standing program. The two-year regular MSW degree requires 46 core credit hours, plus 10 elective hours. Due to the strict requirements of the Council on Social Work Education's accrediting mandates, these core courses must all be taught or co-taught within the department by faculty holding an MSW degree. Occasionally, a student who has already earned a BSW from an accredited program may apply to this program. In this case, the student would be placed in the Advanced Standing program, and take either 33 credits (Advanced Standing) or 39 credits (Advanced Standing Plus). Students with an undergraduate GPA of 3.0 or higher are eligible to complete the Advanced Standing Program, while those with a lower GPA must complete the Advanced Standing Plus requirements.

These program models create a curriculum that allows for the integration of 21–24 Social Work and CIDP credits, giving students the advantage of being able to reduce their total credit load. Since both MSCID and MSW programs already share courses in order to reduce costs and achieve a more streamlined and efficient program, the course work for both degrees must be taken either simultaneously or within one academic year of completion of one of the degrees in order to fulfill the requirements of either degree.

Because of CSWE requirements, students in the MSCID/MSW SOCIAL WORK COURSES 215 dual degree program would register for social work core classes in lieu of certain CIDP courses and would take an emphasis in either Administration & Development or International Social Work. Students will take shared courses as outlined below.

MSW Requirements

Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

English Language Requirement

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 80 (must achieve passing score on each section) or
3. TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
4. Nelson Denny—score of 13 and
5. Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Certificates

International Development Graduate Certificate

Graduate Certificates

To qualify for a graduate level certificate, prospective students must already hold a terminal undergraduate degree (a bachelor's degree). The purpose of a graduate certificate is to provide specialized knowledge within a certain emphasis. The certificate involves less cost and requirements than a master's degree. The certificate program represents a focused collection of courses (15 credits) and when completed affords the student a record of academic accomplishment at the graduate level in organizational leadership or international development.

Graduate Certificate: International Development

Required courses — 6

- BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3
- CIDS 520 – Development Theory and Practice Credits: 3

Elective courses — 9

- ACCT 625 – Financial Analysis and Reporting Credits: 3
- ANTH 517 – Cultural and Developmental Anthropology Credits: 2
- BSAD 515 – Organizational Behavior & Leadership Credits: 3
- CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning Credits: 3
- CIDS 536 – Development Design & Evaluation Credits: 3
- COMM 540 – Communication in Development Practice Credits: 2–3
- GDPC 623 – Development Research and Applied Statistics Credits: 3
- IDSC 610 – Ethics in Development Credits: 2
- PLSC 525 – Public Policy, Civil Society and Development Credits: 2–3

Total Credits: 15

IDP Admission Requirements

To be admitted to regular standing into the International Development Program, students must

- Qualify for general admission into graduate studies at Andrews University
- Hold a four-year baccalaureate degree from an accredited American university or senior college, or its equivalent from a comparable institution outside the U.S.
- Demonstrate adequate undergraduate preparation in the proposed field of graduate study and in general education.
- Indicate ability to handle master's-level work in the language of instruction.

Note:

- Access to email communication is compulsory for participation in this program.
- The Graduate Record Examination (GRE) transcript requirement is waived for students in the overseas program.
- TOFEL is waived for students in this program.

For More Information

See “Graduate Program Policies/Administration: Off-Campus” for more information.

Organizational Leadership Graduate Certificate

Graduate Certificates

To qualify for a graduate level certificate, prospective students must already hold a terminal undergraduate degree (a bachelor's degree). The purpose of a graduate certificate is to provide specialized knowledge within a certain emphasis. The certificate involves less cost and requirements than a master's degree. The certificate program represents a focused collection of courses (15 credits) and when completed affords the student a record of academic accomplishment at the graduate level in organizational leadership or international development.

Graduate Certificate: Organizational Leadership

Required courses — 6

- CIDS 520 – Development Theory and Practice Credits: 3
- IDSC 620 – Strategic Planning in Global Leadership Credits: 3

Elective courses — 9

- ACCT 625 – Financial Analysis and Reporting Credits: 3
- ANTH 517 – Cultural and Developmental Anthropology Credits: 2
- BSAD 515 – Organizational Behavior & Leadership Credits: 3
- BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3
- CHMN 526 – Conflict Management in the Church Credits: 2–3
- COMM 540 – Communication in Development Practice Credits: 2–3
- GDPC 623 – Development Research and Applied Statistics Credits: 3
- IDSC 630 – Program Design and Evaluation Credits: 3
- PLSC 525 – Public Policy, Civil Society and Development Credits: 2–3
- THST 634 – Christian Social Ethics Credits: 2–3

Total Credits: 15

IDP Admission Requirements

To be admitted to regular standing into the International Development Program, students must

- Qualify for general admission into graduate studies at Andrews University
- Hold a four-year baccalaureate degree from an accredited American university or senior college, or its equivalent from a comparable institution outside the U.S.
- Demonstrate adequate undergraduate preparation in the proposed field of graduate study and in general education.

- Indicate ability to handle master's–level work in the language of instruction.
- Note:
- Access to email communication is compulsory for participation in this program.
 - The Graduate Record Examination (GRE) transcript requirement is waived for students in the overseas program.
 - TOFEL is waived for students in this program.

For More Information

See “Graduate Program Policies/Administration: Off–Campus” for more information.

Anthropology

ANTH 124 – Introduction to Anthropology

Credits: 3

An introduction to the anthropological perspective. Topics include cognitive and social aspects of language, biology and the study of culture, origins of culture, archaeology and cultural beginnings, introduction to the study of cultural variation, and models of culture. **Grade Mode:** Normal (A–F,I,W) **Offering:** Even years **College Code:** CAS

ANTH 200 – Cultural Anthropology

Credits: 3

Comparative study of human diversity and of ways of being human. The concept of culture and ethnography as the primary tool of cultural anthropological research. Salient features of tribal communities, state level policies and modern network society. Globalization and its social, economic and environmental consequences. Understanding “ourselves” and those we call “others.” **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 205 – Introduction to Archaeology

Credits: 3

An introduction to some of the discoveries made by archaeologists and to some of the methods whereby their discoveries are made. Advances in archaeological method and theory over the past 100 years are explained and illustrated. **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

ANTH 415 – Urban Anthropology

Credits: 3

An introduction to ethnographic approaches to understanding urban populations and problems. Special emphasis placed on examining the uses of quantitative methods in the design of urban community initiatives. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 417 – Cultural and Developmental Anthropology

Credits: 3

Introduction to the basic concepts, methods and theories of cultural anthropology. Anthropological perspectives on culture change, globalization, global and local world–making, indigenous knowledge, sustainable community development, and project management. Special emphasis on anthropological principles and techniques that inform development work including application of anthropological knowledge and research to real–world problems. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 420 – Food and Culture

Credits: 3

Understanding who is well fed and who is hungry among the world’s peoples and why such huge differences exist in the level of food security among the world’s people. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 435 – Museum and Lab Methods

Credits: 3

Methods for preparation and preservation of archaeological finds. Conservation, cleaning, cataloguing, and classification. Analysis of lithics, ceramics, faunal and floral remains, metals, and glass. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 440 – Topics in Anthropology

Credits: 1–3

Topics in cross–cultural anthropology. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

ANTH 455 – Ethnography

Credits: 3

An introduction to ethnography as a method for gathering data about human social interactions and communities. Overview of various ways of doing ethnographic fieldwork within and beyond the discipline of anthropology. Examples of ethnography in international development, business, industry and government will also be discussed. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

ANTH 478 – Archaeological and Ethnographical

Credits: 3

Perspectives on the Middle East History of exploration. Beginnings of sedentary food production and pastoralism. Rise of Egyptian and Mesopotamian civilization. Israel, Ammon, Moab, and Edom. Rome and Christianity. History of the Arabs and Islamic civilization. Ethnographical perspectives on women, families, tribes, and states. Islam and the modern world. Offered as credit on summer tours. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 495 – Independent Studies/Readings in Anthropology

Credits: 1–3

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

ANTH 496 – Supervised Fieldwork in Anthropology or Archaeology

Credits: 1–8

Students may apply to participate as trainees on research projects sponsored either by the Department of Behavioral Sciences or the Institute of Archaeology. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 8 credits **College Code:** CAS

ANTH 517 – Cultural and Developmental Anthropology

Credits: 2

Introduction to the basic concepts, methods and theories of cultural anthropology. Anthropological perspectives on culture change, globalization, global and local world–making, indigenous knowledge, sustainable community development, and project management. Special emphasis on anthropological principles and techniques that inform development work including application of anthropological knowledge and research to real–world problems. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ANTH 555 – Ethnography

Credits: 2–3

Introduction to ethnography as a method for gathering data about human social interactions and communities. Overview of various ways of doing ethnography fieldwork within and beyond the discipline of anthropology. Examples of ethnography in international development, business, industry and government will also be discussed. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

ANTH 600 – Seminar in Cultural Anthropology

Credits: 2–3

The study of culture and cultural variation. The contemporary beliefs, values, institutions and material way of life of people in North America are contrasted with those of people living in other regions of the world today and in the past. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

Behavioral Sciences

BHSC 100 – Philosophy of Service

Credits: 2

Provides a theoretical and practical basis for understanding and meeting needs of communities and individuals. Course materials include works from Christian and secular sources. Students develop an individualized practical plan to understand and meet needs. Does not apply to a major or minor. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues

Credits: 3

Issues may include drug abuse, the family, crime/violence and punishment, AIDS, poverty, and health care. Integrates foundational social science with a Christian perspective to help students understand the origins of current societal issues and strategies for addressing those issues. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences

Credits: 3

Probability concepts, frequency distributions, measures of central tendency, measures of variation, using frequency distributions, point–estimation and confidence intervals, sampling distribution, levels of significance in hypothesis testing, t and z tests, correlation, chi–square and ANOVA. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

BHSC 235 – Culture, Place and Interdependence

Credits: 3

Uses and integrates concepts from anthropology, geography and other sciences to help students understand how human culture and natural habitat create regional, ethnic, religious and other social groups. Examines origins of group conflict and considers avenues of responsible action for resolution. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

BHSC 300 – Philosophy of Service Fieldwork

Credits: 1–2

Provides an opportunity for the practical application of the theories, principles and concepts learned in BHSC 100. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BHSC 100 or permission of Service Learning Coordinator. 20 hours of service is required for each credit registered for. Does not apply to a major or minor. **College Code:** CAS

BHSC 378 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

BHSC 405 – Introduction to Public Health

Credits: 3

An overview of some of the important content areas and disciplines that make up Public Health, including Health Promotion and Education and Education, Environmental Health, Epidemiology, Disease Prevention, Global or International Health issues and other aspects of our environment that effect the Public Health. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

BHSC 438 – Workshop

Credits: 1–3

Provides an opportunity to study in a focused area within the behavioral sciences. A paper is required for more than one credit and may be required for one credit. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

BHSC 440 – Topics in _____

Credits: 1–4

Examines emerging issues in the behavioral sciences. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

BHSC 495 – Independent Study/Readings in Behavioral Sciences

Credits: 1–3

Individual assignments and/or reports and/or individualized research in behavioral sciences are set up on a contract basis with no more than 3 credits per semester. Students may repeat or take any combination of departmental independent study courses for up to 6 credits. Consult staff before registering. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

BHSC 498 – Research Project in Behavioral Sciences

Credits: 1–3

An independent research project in behavioral sciences typically supervised by a faculty member and resulting in a technical report summarizing findings or a submission to a professional conference. Students may repeat or take any combination of departmental independent study or research project courses up to 6 credits with no more than 3 credits per semester. Consult staff before registering. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

BHSC 575 – Topics in Behavioral Sciences

Credits: 1–5

This topic course could be used to register for a Study Tour. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

BHSC 578 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

BHSC 590 – Internship

Credits: 1–3

To be arranged in cooperation with the student’s advisor. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

BHSC 648 – Workshop

Credits: 1–2

Provides an opportunity to study in a focused area within the behavioral sciences. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

BHSC 690 – Independent Study/Readings/Research Project in Behavioral Sciences

Credits: 1–3

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

Comm & Intl Development

CIDS 515 – Organization and Human Resources

Credits: 3

This course teaches students to apply psychological theories and principles to the inner workings of organizations. The following topics are discussed in detail: employee selection and training, small group behavior, leadership, attitudes and motivation, power and politics, and strategies for fostering organizational change. Students will learn to interpret research findings accurately and responsibly, and there will be a special emphasis on learning to conduct empirical research in organizational settings. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 520 – Development Theory and Practice

Credits: 3

Provide an introduction to different theoretical perspectives of development. Review of the history of development which provides a critical and ethical understanding of the social, economic, and political dimension of development in practice. This course addresses a range of processes to address the needs of diverse communities in multiple and complex contexts. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 525 – Ethics in Development

Credits: 2

An ethical framework for the understanding of social transformation. Ethical paradigms are explored, as well as historical examples of how development interventions have generated social change. Focus on contemporary approaches to development, revolution and liberation. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning

Credits: 3

Introduction to concepts and methods of conducting a community needs assessment and mapping community capacity to address those needs. Development of skills in selecting, analyzing, understanding, and interpreting assessment outcomes to inform policy and practice. Consider complex interactions between community and international development stakeholders and other factors affecting accountability, project planning, and outcomes. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 535 – Budgeting, Fundraising & Grantsmanship

Credits: 2

Program planning based on need and capacity will be used to develop grant proposals to address the need. Hands-on experience is sought, linking classroom instruction and real community situations. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 536 – Development Design & Evaluation

Credits: 3

Exploration of various perspectives and approaches to project design, implementation, and evaluation. Understand the context and interdependence of each element of the project management cycle. Building on assessment results, the theory and application of program planning techniques and processes, and the objectives of monitoring and evaluation are introduced. Hands-on experience provides opportunities to exercise skills needed for project design, grant writing, and evaluation techniques. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 540 – International Development: Strategy Design & Implementation

Credits: 3

Evolution of international development theory across disciplines. Changing conceptualizations, measurements, processes and effects of development and poverty. Ethnicity, social class, gender, and community influences on socioeconomic processes. Current issues, concerns, and strategic alternatives. Development policy design, strategy, programs, and projects. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 550 – Education for Sustainable Development

Credits: 3

Provides an overview of education for sustainability. Focuses on international projects and organizations that address education for sustainable development. Explores education as a means to address development issues such as social justice, poverty, food security, globalization, etc. Covers different educational approaches and models that ensure a healthy environment, vibrant community, and equitable society. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 555 – Development Policy and Analysis

Credits: 3

Examine the processes that lead to the formulation, adoption, implementation, and evaluation of development policies and programs across countries. Study types of policies, policy design, and policy tools. Develop skills of political and bureaucratic analysis that can improve policy analysis, policy decision-making, and policy implementation for sustainable development. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 560 – Political Economy of Development

Credits: 3

Overview of the political economy of developing countries and the complex interplay of international system, international economic and political economy factors that influence development initiatives and outcomes. Discuss the relation of globalization, trade, aid, and international economic and development institutions on development activity. Specific topics include development and economic policy, civil society, alternative development models, democracy, authoritarianism, sustainable development and gender. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 565 – Institutions in Development

Credits: 3

Overview of the effect of formal and informal institutions on development, combining in-depth case studies of a variety of domestic and international institutions with theoretical and empirical insights from development disciplines (comparative politics, political economy, international relations, and economics). **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 570 – Governance in Developing Countries

Credits: 3

Discusses basic theories and concepts of governance and its relation to development. Examines how domestic institutions, historic legacies, socioeconomic factors, non-state actors, conflict, and democratization process affect the quality of government and level of development. Addresses the challenges of development from a governance perspective. Special attention will be given to developing countries. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 575 – Topics in Community & International Development

Credits: 1–5

This topic course could be used to register for a study tour. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

CIDS 578 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

CIDS 580 – Organizational & Community Leadership

Credits: 1–2

Focus on leadership theories and strategies. Students develop the capacity to apply these theories and strategies adaptively in leadership situations within organizational and community context. Students explore how leadership styles, communication, planning, organizing, decision making, and marketing impact organizational and community change. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 585 – Gender, Economic Development, and Poverty Reduction

Credits: 3

Introduces the linkages between gender equality and growth & poverty-reduction, and enhances students' ability to participate in the design and implementation of poverty-reduction strategies. Explores the concepts of gender inequality as it relates to poverty; discusses the importance of gender issues in economic development and how they relate to attaining the Millennium Development Goals. Other concepts to be covered: Access to education, health, labor markets, employment opportunities, and productive resources as they affect growth. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 590 – Issues in Gender and Development

Credits: 3

Familiarizes students with the main analytic debates in the field of gender and development. Institutional domains (households, family and kinship, the market, the community and the state) through which gender relations are both defined and transformed receive separate attention. An introductory survey of conceptual approaches to gender is followed by a treatment of central topics which include: the move from WID (women in development) to GAD (gender and development) as critical perspectives in development studies, conceptual approaches to households, men and masculinities in development, globalization and women's employment, gender, state and governance, women's movements and state-civil society relations, gender, conflict and post-conflict, and an appraisal of prospects for gender-aware planning and empowerment. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

CIDS 631 – Professional Development Seminar

Credits: 0.5 or 1

An overview of salient issues and problems related to the topic; an orientation to communities of researchers and professionals working on the topic; an inventory of baseline competencies of persons professing expertise on the topic; and a survey of the opportunities for professional involvement related to the concentration. To be taken during the first fall semester a student is in the program. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 1 credit **College Code:** CAS

CIDS 632 – Portfolio Development Seminar

Credits: 1

ring a student's final year in the program. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

CIDS 650 – Project Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approvals only. Registration for this title indicates full-time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W)

Repeatable: Repeatable **College Code:** CAS

CIDS 655 – Program Continuation

Credits: 0

Students may register for this non-credit continuation course to maintain active status. For additional information on active status, please refer to p. 56 in the bulletin. Registration does not indicate full-time status. \$ – Course or lab fee **Grade**

Mode: Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

CIDS 660 – Thesis Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approvals only. Registration for this title indicates full-time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W)

Repeatable: Repeatable **College Code:** CAS

CIDS 665 – Preparation for Comprehensive Exams

Credits: 0

Advisor approval required. Registration for this title indicates fulltime status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

CIDS 670 – Comprehensive Exam

Credits: 0

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

CIDS 677 – Colloquium

Credits: 1

The course provides a forum for development and peer review of research projects by CIDP graduate students. It is required for all students to submit at least one paper for presentation at a professional conference or at least one article for publication in a professional journal before graduation. The course is to be taken during the student's first Spring semester in the program. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

CIDS 680 – Field Practicum

Credits: 1–2

Students integrate course content and theory into practice during a 300-hour field practicum coordinated with each student's research project and/or concentration that is the concluding requirement for the concentration. 260 hours may be done with the student's primary employer, but all students must complete one week (40 hours) in an external organization. Students must submit a practicum proposal indicating approval from a sponsoring organization and learning objectives. Upon completion, the student submits a practicum portfolio. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** CIDS 520, CIDS 530, and 2 courses in concentration. **Repeatable:** Repeatable up to 2 credits **College Code:** CAS

CIDS 689 – Seminar

Credits: 1–3

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

CIDS 690 – Independent Study

Credits: 1–3

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

CIDS 697 – Portfolio Project

Credits: 2

Students prepare and defend their portfolios. Each student reviews and documents his/her learning and personal goal attainment, and explores issues related to career development and life-long learning. Students will include at least one significant research project. Registration for this title indicates full-time status. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **College Code:** CAS

CIDS 698 – Research Project

Credits: 2–3

A research project is carried out by a master's degree candidate in which the student's mastery of the research process is demonstrated. A typical end product might be a community assessment study, a program evaluation study, a best practice benchmarking study, or a problem-solving study. Registration for this title indicates full-time status. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **College Code:** CAS

CIDS 699 – Master's Thesis

Credits: 3–4

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **College Code:** CAS

Family Studies

FMST 115 – Introduction to Family Studies

Credits: 3

Study of the conceptual framework for the discipline and exploration of contemporary issues and trends in society as related to families. **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

FMST 201 – Personal Relationships

Credits: 3

The interdisciplinary study of personal relationships including intimate relationships, marriage and family living. The course will focus on the processes and skills necessary to build, maintain and enjoy important relationships across the lifespan. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FMST 310 – Parent–Child Relationships

Credits: 3

Study of the concepts, challenges, and changes in the parent/child relationship including contemporary strategies, parenting in diverse family types, and changing parenting roles throughout the life cycle. **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

FMST 350 – Family Cultural Perspectives

Credits: 3

Study of the family as a social institution, its biological and cultural foundations, and its historic development and changing structure and function. Cross-cultural uniqueness is examined. **Grade Mode:** Normal (A–F,I,W) **Offering:** Even years **College Code:** CAS

FMST 454 – Family Violence Across the Lifespan

Credits: 3

Study of factors contributing to abuse in the family with emphasis on prevention of domestic violence. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

FMST 460 – Family Resource Management

Credits: 3

Principles of sound management of resources including time, money, and energy as they relate to individuals and groups throughout the lifespan, with emphasis on the family. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

FMST 470 – Field Experience

Credits: 1–8

Supervised experience in observing, planning, directing, and/or assisting families in various home or organizational environments. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 8 credits **College Code:** CAS

Geography

GEOG 110 – Survey of Geography

Credits: 3

A survey of major geographic perspectives: physical, human, and regional. Applies toward General Education social science requirements. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

GEOG 240 – Physical Geography

Credits: 3

The physical environment in which human societies exist; the earth's crust, its water systems, land systems, and climatic features. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Recommended:** Normally offered even years. **Offering:** Even years **College Code:** CAS

GEOG 245 – Introduction to Meteorology and Climatology

Credits: 3

Emphasis on atmospheric processes and regional distribution and classification of the world's climate. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

GEOG 260 – Cultural Geography

Credits: 3

The geographic viewpoint of the human occupancy of the earth in relation to the environment; including aspects of population, settlement, language, religion, and economy; a generalized survey of major world cultural areas to integrate course elements. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

GEOG 260V – Cultural Geography

Credits: 3

The geographic viewpoint of the human occupancy of the earth in relation to the environment; including aspects of population, settlement, language, religion, and economy; a generalized survey of major world cultural areas to integrate course elements. **Delivery:** Self-paced online course **College Code:** CAS

GEOG 335 – Introduction to Geographic Information Systems

Credits: 3

The study of the fundamentals of Geographic Information Systems (GIS). Emphasis on the foundations of these systems, their components and capabilities. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

GEOG 430 – Urban Geography

Credits: 3

Examination of spatial patterns and processes associated with urbanization within the framework of economy, culture and politics. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

GEOG 455 – Environmental Disasters

Credits: 3

An integrated study of the causes and geography of natural and man-made disasters. Understanding of extreme event prediction, early warning, and disaster mitigation. Organizations involved in disaster response. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

GEOG 460 – Topics in _____

Credits: 1–3

Study of selected topics in geography. Topic and credit to be announced in advance. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 9 credits with different topics (to 3 credits for graduate students) **College Code:** CAS

GEOG 475 – Regional Geography: _____

Credits: 3

Regional study of physical, economic, and cultural characteristics of major regions of the world. Areas selected for analysis vary from semester to semester. Direct inquires to the department chair. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

GEOG 485 – Geography Field Experience

Credits: 1–6

Observation and evaluation of geographical phenomena in the U.S. or foreign countries. May be based upon individual research, organized tours, or expeditions. A formal report is expected. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

GEOG 495 – Independent Study

Credits: 1–3

Independent work on a specified topic under the guidance of department advisor. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 9 credits with department chair permission **College Code:** CAS

Interdisciplinary Studies

Details of departmental course offerings and course descriptions may be obtained from the department(s) involved.

IDSC 597 – Portfolio

Credits: 1

An organized collection of educational and professional accomplishments to date is produced. This will include basic personal and background information, a profile of the student's organization, outstanding academic work, and other products acquired during his/her time in the program. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

IDSC 610 – Ethics in Development

Credits: 2

Examination of theoretical foundations of ethics in community and international development. Ethical dimensions of policies and practices of major development players are investigated. Focus on contemporary approaches to development ethics in terms of purposes, roles, participants and audiences. Introduction of frameworks for ethical decision-making. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **College Code:** CAS

IDSC 620 – Strategic Planning in Global Leadership

Credits: 3

A multi-disciplinary course which focuses on current and emerging issues of organizational leadership. The course will teach the role of creating a meaningful strategic plan for an effective administrative system for organizations to survive intensifying globalization. Components include the strategic planning process, roles of board and staff, critical importance of a stakeholder analysis, the purpose of mission and vision, and the difference between goals, strategies and objectives. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

IDSC 630 – Program Design and Evaluation

Credits: 3

Introduction to concepts and methods of conducting community needs assessment and capacity mapping. Development of skills in selecting, analyzing, interpreting and presenting data affecting program planning and implementation. Considers complex interactions affecting program accountability and outcomes. Provides practical opportunity to exercise skills needed for project design and grantmanship. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **College Code:** CAS

IDSC 635 – Professional Training: Area of Concentration

Credits: 3

Students are required to participate in a minimum of 45 contact hours of Professional Training related to their area of Concentration. In addition, the student in the final year of the program will design and implement a Colloquium to present best practices in his/her area of Concentration. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

IDSC 640 – Topics: _____

Credits: 1–3

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 650 – Project Continuation

Credits: 0

Grade Mode: Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 655 – Program Continuation

Credits: 0

Registration for this title indicates part-time status. **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 660 – Thesis Continuation

Credits: 0

Thesis Continuation **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 665 – Preparation for Comprehensive Examinations

Credits: 0

Grade Mode: Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 670 – Comprehensive Examinations

Credits: 0

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

IDSC 680 – Field Practicum

Credits: 2

The Field Practicum integrates International Development theory into practice. Students will complete (a) a baseline study that describes the current level of the agency where the practicum is pursued; (b) a benchmarking of best practices in the field [area of concentration]; and (c) an oral presentation of their findings to their peers. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable **College Code:** CAS

IDSC 689 – Seminar

Credits: 1–3

Projects, reports and discussions on various subjects corresponding to faculty specialization. Needed to accommodate new topics under different concentrations. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

IDSC 690 – Independent Study

Credits: 1–3

Individualized reading or research in a specified area under the guidance of an instructor. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

IDSC 696 – Specialization Essay: Area of Concentration

Credits: 1

Students are required to broaden their knowledge in their area of Concentration through independent study of books, scholarly journal articles, professional association publications and newsletters, local government publications, publications of multi-government organizations such as the United Nations or the World Bank, publications by various international nongovernment organizations, or Internet resources. The outcome of this research should be a “Specialist Paper.”

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

IDSC 697 – Research Project

Credits: 3

A research project typically carried out by a master’s–degree candidate in which the student’s mastery of the research process is demonstrated. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

IDSC 699 – Master’s Thesis

Credits: 4

Master’s Thesis **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

Psychology

PSYC 101 – Introduction to Psychology

Credits: 3

Principles of psychology including the study of growth, perception, learning, thinking, motivation, emotion, personality, and mental health. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PSYC 101V – Introduction to Psychology

Credits: 3

Principles of psychology including the study of growth, perception, learning, thinking, motivation, emotion, personality, and mental health. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

PSYC 180 – Dealing with Your Mind

Credits: 3

An introduction to the brain and how it works, with an emphasis on processes used in everyday life: perception of our surroundings, memory and other facets of general cognition, and links to addictive behavior. The labs will give hands-on experience with these topics. Students will be exposed to research opportunities. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PSYC 204 – Personal, Social and Career Development

Credits: 3

Application of psychological principles of behavior as they influence optimal personal, social and career development, with an emphasis on effective strategies for self-management and self-improvement. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PSYC 210 – Introduction to Health Psychology

Credits: 3

Study of causes for the rise of health psychology; interrelationships between psychology and health-related disciplines; models of disease and health care; interrelationships between stressful life events, social support, and wellness; illness behavior; psychology of addictive behavior; and behavioral health. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **College Code:** CAS

PSYC 252 – The Psychology of Adolescence, Youth, and Aging

Credits: 3

Current psychological theories relating to psychological development, maturity, and decline as evidenced during the adolescent, youth, middle age, and retirement years. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **College Code:** CAS

PSYC 269 – History and Systems of Psychology

Credits: 3

A study of significant schools, individuals and theories in the field of psychology, together with their contributions to present knowledge of behavior. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC101. **College Code:** CAS

PSYC 301 – Human Development—Lifespan

Credits: 3

Lifespan is an integrative approach to psychological development which emphasizes the inter-dependency of physical, cognitive, emotional and social development. The interrelatedness of theory, research, and application are seen throughout the entire sequence of human development from conception to death. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** PSYC 101 or written permission of the teacher. **College Code:** CAS

PSYC 315 – Organization and Human Resources

Credits: 3

This course teaches students to apply psychological theories and principles to the inner workings of organizations. The following topics are discussed in detail: employee selection and training, small group behavior, leadership, attitudes and motivation, power and politics, and strategies for fostering organizational change. Students will learn to interpret research findings accurately and responsibly as well as how to conduct empirical research in organizational settings. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PSYC 319 – Stress Management

Credits: 3

An introduction to stress along with signs and symptoms of stress and identification of stressors in a person’s life. Students learn how to increase stress tolerance and implement change. **Grade Mode:** Normal Sem (A–F,I,DG,DN,W) **College Code:** CAS

PSYC 364 – Learning and Behavior

Credits: 3

A study of theories of learning which evaluates connections between learning and behavioral processes within and between humans and animals. A lab fee may be required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **College Code:** CAS

PSYC 410 – Introduction to Theories in Counseling & Psychotherapy

Credits: 3

An introduction to the major theoretical models and concepts for counseling and psychotherapy. Concepts such as the philosophical assumptions, the therapeutic process, and the client/therapist relationship are discussed. Limited to psychology majors and minors, or permission of the instructor. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101, and one of the following: PSYC 454, PSYC 269 or PSYC 460. **College Code:** CAS

PSYC 420 – Human Sexuality

Credits: 3

A study of the multiple aspects of sexuality within a framework of Christian values. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PSYC 425 – Psycholinguistics

Credits: 3

A survey of the psychological processes involved in human language use, including comprehension, acquisition, or language. The relationship of language to other thought processes and its neural correlates will also be discussed. Integrated lab activities and projects will introduce common experimental methodologies in psycholinguistics. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101 or PSYC 180. **College Code:** CAS

PSYC 432 – Research Methods II: Introduction

Credits: 3

Asking researchable questions. Reviewing the literature. Hypothesis formulation. Research methodology emphasizes qualitative approaches but includes discussion of instrumentation, subject selection, and data collection procedures. Andrews’ human subject research review process. Informed consent. Writing assignments include theoretical essay, pilot study, second pilot study, research journal. Lab schedule will be arranged. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** BHSC 230 or STAT 285. **College Code:** CAS

PSYC 433 – Research Methods III: Advanced Research Design—Experimental and Survey

Credits: 3

The principles of designing, administrating, interpreting, and writing experimental research, questionnaires and interview schedules. Survey also focuses on coding procedures and scale construction. Structured around a research project, and the interpretation of scientific reports and professional journals. Lab schedule will be arranged. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PSYC 434/SOCI 434. **Prerequisite(s):** BHSC 230 or STAT 285 and PSYC 432. **College Code:** CAS

PSYC 434 – Research Methods IV: Advanced Statistical Analysis and SPSS

Credits: 3

A study on advanced parametric and non–parametric techniques such as two–way ANOVA, regression and power. The utilization of SPSS in the analysis and interpretation of statistical data. An analysis of professional journals and reports with an emphasis on the statistical reasoning. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PSYC 433/SOCI 433. **Prerequisite(s):** BHSC 230 or STAT 285 and PSYC 432/SOCI 432. **College Code:** CAS

PSYC 438 – Workshop

Credits: 1–3

Provides an opportunity to study in a focused area within the Behavioral Sciences. A paper is required for more than one credit and may be required for one credit. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

PSYC 445 – Cognitive Psychology

Credits: 3

A study of how people use and acquire knowledge with emphasis on how people perceive, think, remember, store information, solve problems, and acquire and use language. A weekly lab focuses on experimental techniques that have been used to examine mental processing. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101 or PSYC 180. **College Code:** CAS

PSYC 449 – Neuropsychopharmacology

Credits: 3

A study of the mechanisms of actions of psychotropic agents and how they affect human perception and behavior. Emphasis is placed on the organization and function of the nervous system and the molecular and biochemical basis of drugs used to treat behavioral and clinical disorders. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101 or PSYC 180; BIOL 221, BIOL 222 or BIOL 165, BIOL 166. **College Code:** CAS

PSYC 450 – Social Psychology

Credits: 3

A study of human behavior within a group context. Included are attitudes, social roles, collective behavior, and the dynamic aspects of human interaction. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101 and two other behavioral science courses. **College Code:** CAS

PSYC 454 – Theories of Personality

Credits: 3

Integrates subfields of psychology to enhance understanding of the individual personality. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **College Code:** CAS

PSYC 455 – Treatment of Substance Abuse

Credits: 2

An overview of treatment techniques and basic prevention strategies including specific training in assessment and therapeutic techniques, examining the relationship between etiology and treatment. Treatment evaluation discussed. At–risk, vulnerable populations receive special consideration. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101; **Prerequisite/Corequisite:** SOCI 415. **College Code:** CAS

PSYC 458 – Advanced Theories of Addiction and Treatment

Credits: 3

Surveys, critiques and integrates the primary theories currently used to explain the process, outcome and treatment of addictions. Covers biological, psychological, social and anthropological addiction theories. Primary substance–abuse prevention theories are surveyed. Implications for at–risk, vulnerable populations considered. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101; **Prerequisite/Corequisite:** SOCI 415. **Offering:** Alternate years **College Code:** CAS

PSYC 460 – Psychology of Abnormal Behavior

Credits: 3

A study of deviant human behavior and theories of causation and remediation. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **College Code:** CAS

PSYC 465 – Physiological Psychology

Credits: 3

Introduces the biological bases of behavior. Examination of the neuroanatomical and physiological foundations of such topics as the mind/body problem, the development of language and learning, sexual behavior, recovery from brain damage, and psychopathology. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. Normally offered odd years. **College Code:** CAS

PSYC 466 – Psychology of the Exceptional Child

Credits: 3

A survey of assessment, remediation, and adjustment for exceptional children and youth who require special education and related services. Various types of exceptionality are explored such as mental retardation, learning disabilities, emotional or behavioral disorders, giftedness, disorders of communication, and impairment of hearing or sight. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **Offering:** Odd years **College Code:** CAS

PSYC 471 – Behavior Modification

Credits: 3

The theory and techniques of behavior change utilizing principles of conditioning. Applications relevant to health-centered and educational settings are emphasized. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **Recommended:** Normally offered even years. **Offering:** Even years **College Code:** CAS

PSYC 480 – Field Experience

Credits: 1–8

Supervised field placement in a human services setting is approved in advance by the department chair. A minimum of 45 hours of fieldwork activity is required for each credit. Consult staff before registering. Open only to departmental majors. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 8 credits **College Code:** CAS

PSYC 486 – Psychological Assessment

Credits: 3

Theory and practice in individual and group testing in the areas of intelligence, aptitude, achievement, personality, and interest. Evaluation of tests and other instruments for measurement with a focus on their worth and limitations. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101, BHSC 230 or STAT 285. **College Code:** CAS

PSYC 490 – Practicum in Psychology

Credits: 3

This course is designed to build on psychological knowledge gained in previous coursework, explore different theories outlining how to work with agencies, and apply this knowledge to working in a community agency. The course requires students to spend 90 hours at the agency field site during the semester, and meet weekly as a class to discuss theories of intervention and their field experiences. Student's final grade in this course will be based on feedback from the site supervisor as well as the instructor's evaluation of classwork and fieldwork. It is recommended that students meet with the instructor the semester beforehand to discuss class requirements and placement options. Enrollment in this class is limited to psychology majors and minors of junior or senior status, or permission of the instructor. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101 and six additional credits of psychology courses **College Code:** CAS

PSYC 495 – Independent Study/Readings in Psychology

Credits: 1–3

Individual assignments and/or reports and/or individualized research in psychology on a contract basis with no more than 3 credits per semester. Students may repeat or take any combination of departmental independent study courses up to 6 credits. Consult staff before registering. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

PSYC 498 – Research Project in Psychology

Credits: 1–3

An independent research project in psychology typically supervised by a faculty member and resulting in a technical report summarizing findings or a submission to a professional conference. Students may repeat or take any combination of departmental independent study or research project courses up to 6 credits with no more than 3 credits per semester. Consult staff before registering. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable **College Code:** CAS

PSYC 515 – Organization and Human Resources

Credits: 2

This course teaches students to apply psychological theories and principles to the inner workings of organizations. The following topics are discussed in detail: employee selection and training, small group behavior, leadership, attitudes and motivation, power and politics, and strategies for fostering organizational change. Students will learn to interpret research findings accurately and responsibly, and there will be a special emphasis on learning to conduct empirical research in organizational settings. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PSYC 575 – Topics in Psychology

Credits: 1–4

This topic course could be used to register for a Study Tour. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

PSYC 648 – Workshop

Credits: 1–3

Provides an opportunity to study in a focused area within the Behavioral Sciences. A paper is required for more than one credit. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

Sociology

SOCI 119 – Principles of Sociology

Credits: 3

A study of the development of sociology as a social science, some concepts and ideas associated with the study of human behavior, and an overview of the principles, terms, and concepts in the discipline. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 119V – Principles of Sociology

Credits: 3

A study of the development of sociology as a social science, some concepts and ideas associated with the study of human behavior, and an overview of the principles, terms, and concepts in the discipline. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

SOCI 160 – Introduction to International Development

Credits: 3

Focuses on the dilemmas facing industrialized nations and developing nations in coping with severe global inequalities and poverty. Analyzes the popular strategies and explanations used by governments and non-governmental organizations (NGOs) to deal with these challenges. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 314 – Migrant & Refugee Issues

Credits: 2–3

This course will study fundamental theories and concepts regarding voluntary migration (migrant issues) and forced migration (refugee issues). It will also address the main political, social, economic, and environmental push-and-pull factors that influence immigration and emigration within the framework of globalization. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 315 – Criminology

Credits: 3

Theories and techniques associated with apprehension, conviction, and detention of individuals who infringe criminal law in this society. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Even years **College Code:** CAS

SOCI 345 – Juvenile Delinquency

Credits: 3

Topics related to modern youth in trouble, sociological analysis of the problems of youth, legal and societal factors involved in delinquency, and some of the remedial measures now being used. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

SOCI 350 – Social Policy

Credits: 2

Develops basic knowledge and skills for policy analysis, formulation and critical challenge within local and international contexts. Examines the determining factors affecting public policy in the United States as compared with other systems. Provides framework for analysis of social problems and policies, as they impact development and practice in human services. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 408 – Emergency Preparedness

Credits: 2

Provides an introduction to basic philosophy and concepts of Emergency Preparedness as required by FEMA (Federal Emergency Management Agency) and most states which certify staff. Includes use of FEMA—provided modules in the Professional Development Series which are accepted prerequisites for advanced classroom courses. A passing grade is required on each module for a Satisfactory grade and receipt of a Professional Development Series Certificate of Completion. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 410 – Social Gerontology

Credits: 3

A study of aging and ageism in the United States, including demographic trends, societal attitudes, problems of the elderly, and national policies relating to senior citizens in the cultural context of American society. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Even years **College Code:** CAS

SOCI 415 – Substance Abuse in American Society

Credits: 2

An overview of substance-use terminology, historical issues, definitions, epidemiology, consequences and drugs of abuse within an American cultural and historical framework. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

SOCI 420 – Medical Sociology

Credits: 3

Analysis of the relationship between social characteristics and the incidence and prevalence of disease, as well as geographical determinants of health and medical systems. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Even years **College Code:** CAS

SOCI 421 – Development Theory & Practice

Credits: 3

Provide an introduction to different theoretical perspectives of development. Review of the history of development which provides a critical and ethical understanding of the social, economic, and political dimension of development in practice. This course addresses a range of processes to address the needs of diverse communities in multiple and complex contexts. Open to seniors only. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 425 – Racial and Ethnic Relations

Credits: 3

A study of the distinctive racial and cultural minorities in American society with an emphasis on problems and adjustments within the larger society. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 430 – Gender Roles in Contemporary Society

Credits: 3

Significant issues related primarily to the concerns of women as members of American society, but also in cross-cultural perspective. Includes such topics as socialization in sex roles, women in the professions, women in minority groups, the feminization of poverty, and women and substance abuse and crime. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 431 – Needs Assessment and Social Policy

Credits: 3

Introduction to concepts and methods of conducting a Community needs assessment and mapping community capacity to address those needs. Development of skills in selecting, analyzing, understanding, and interpreting assessment outcomes to inform policy and practice. Consider complex interactions between community and international development stakeholders and other factors affecting accountability, project planning, and outcomes. Open to seniors only. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 432 – Research Methods II: Introduction

Credits: 3

Asking researchable questions. Reviewing the literature. Hypothesis formulation. Research methodology emphasizes qualitative approaches but includes discussion of instrumentation, subject selection, and data collection procedures. Andrews' human subject research review process. Informed consent. Writing assignments include theoretical essay, pilot study, second pilot study, research journal. Lab schedule will be arranged. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** BHSC 230 or STAT 285. **College Code:** CAS

SOCI 433 – Research Methods III: Advanced Research Design–Experimental and Survey

Credits: 3

The principles of designing, administrating, interpreting, and writing experimental research, questionnaires and interview schedules. Survey also focuses on coding procedures and scale construction. Structured around a research project, and the interpretation of scientific reports and professional journals. Lab schedule will be arranged. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PSYC 434. **Prerequisite(s):** BHSC 230 or STAT 285 and PSYC 432. **College Code:** CAS

SOCI 434 – Research Methods IV: Advanced Statistical Analysis & SPSS

Credits: 3

A study on advanced parametric and non-parametric techniques such as two-way ANOVA, regression and power. The utilization of SPSS in the analysis and interpretation of statistical data. An analysis of professional journals and reports with an emphasis on the statistical reasoning. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PSYC 433/SOCI 433. **Prerequisite(s):** BHSC 230 or STAT 285 and PSYC 432/SOCI 432. **College Code:** CAS

SOCI 440 – Sociology of the Family

Credits: 3

This course focuses on theoretical understandings of family relationships in diverse settings and the various contexts that shape and sustain such relationships. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 445 – Emergency Planning

Credits: 2

Principles of emergency planning used in any type of disaster. Includes working with volunteers, handling special events, evacuation, mass fatalities, planning for schools, and homeland security planning. Includes satisfactory completion of FEMA-provided modules in Professional Development Series. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOCI 408 or SOCI 508; SOWK 408. **College Code:** CAS

SOCI 449 – Disaster Response and Emergency Operations

Credits: 2

Study of the phases of disaster response and recovery with attention to local, state and national roles and expectations. Models of emergency management operations including communication, coordination, and chief executive decision making under conditions of disaster response will be emphasized. Attention will be given to the problems and concerns of recovery of victims and communities and the implications of disaster recovery efforts. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Prerequisite(s):** BSAD426/BSAD 526; Evidence of Satisfactory completion of PDSERVICE course. modules, IS244 Developing and Managing Volunteers, and IS700 National Incident Management System. **College Code:** CAS

SOCI 455 – Development Policy and Analysis

Credits: 3

Examine the processes that lead to the formulation, adoption, implementation, and evaluation of development policies and programs across countries. Study types of policies, policy design, and policy tools. Develop skills of political and bureaucratic analysis that can improve policy analysis, policy decision-making, and policy implementation for sustainable development. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 460 – Death and Grief in Contemporary Society

Credits: 2

The study of cultural and societal perspectives on death and personal and interpersonal dynamics of death and dying. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 470 – Demography

Credits: 3

Overview of the world's population; spatial dimensions of human populations; fertility concepts, measurements, trends, levels, and explanations; mortality and migration; population structures, life chances; population growth, economic development, and the environment. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 474 – Social Thought and Theory

Credits: 3

The roots of self-conscious social thought and the rise of sociology and anthropology as scientific disciplines in the 19th century. Major theoretical orientations in their fields, proponents, and impact on present-day sociology and anthropology are reviewed. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W)

Offering: Odd years **College Code:** CAS

SOCI 478 – Principles and Practice of Hazards Mitigation

Credits: 3

Study of preparedness as related to hazards in the local community with attention to means of mitigation as well as planning measures. Includes IS modules IS 271 Anticipating Hazardous Weather & Community Risk and IS 240 Hazardous Materials Prevention. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 208 and evidence of satisfactory completion of SOCI 408/SOWK 408. **College Code:** CAS

SOCI 480 – Field Experience

Credits: 1–8

Supervised field placement in a human services setting is approved in advance by the department chair. A minimum of 45 hours of fieldwork is required for each credit. Open only to departmental majors. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 8 credits **College Code:** CAS

SOCI 490 – Capstone in Emergency Preparedness (Practicum)

Credits: 1–3

Experience in Disaster Preparedness exercises. Individually planned with the student by the instructor in consultation with local campus and community Emergency Coordinators. Briefing and reflections with the instructor will be expected of students enrolled in this course. Permission of instructor required. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Course Attribute:** Service course **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Prerequisite(s):** SOCI 408/SOWK 408 or equivalent and one other core course in Emergency Preparedness. **Repeatable:** Repeatable up to 3 credits **College Code:** CAS

SOCI 495 – Independent Study/Readings in Sociology

Credits: 1–3

Individual assignments and/or reports and/or individualized research in sociology are set up on a contract basis with no more than 3 credits per semester. Students may repeat or take any combination of departmental independent study courses for up to 6 credits. Consult staff before registering. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

SOCI 498 – Research Project in Sociology

Credits: 1–3

An independent research project in sociology typically supervised by a faculty member and resulting in a technical report summarizing findings or a submission to a professional conference. Students may repeat or take any combination of departmental independent study or research project courses up to 6 credits with no more than 3 credits per semester. Consult staff before registering. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

SOCI 508 – Emergency Preparedness

Credits: 2

Provides an introduction to basic philosophy and concepts of Emergency Preparedness as required by FEMA (Federal Emergency Management Agency) and most states which certify staff. Includes use of FEMA-provided modules in the Professional Development Series which are accepted prerequisites for advanced classroom courses. A passing grade is required on each module for satisfactory grade and receipt of a Professional Development Series Certificate of Completion. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 510 – Gender Roles in Contemporary Society

Credits: 3

Significant issues related primarily to the concerns of women as members of American society, but also in cross-cultural perspective. Includes such topics as socialization in sex roles, women in the professions, women in minority groups, the feminization of poverty, and women and substance abuse and crime. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 514 – Migrant & Refugee Issues

Credits: 2–3

This course will study fundamental theories and concepts regarding voluntary migration (migrant issues) and forced migration (refugee issues). It will also address the main political, social, economic and environmental push and pull factors that influence immigration and emigration within the framework of globalization. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 515 – Racial and Ethnic Relations

Credits: 3

A study of the distinctive racial and cultural minorities in American society with an emphasis on problems and adjustments within the larger society. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 532 – Research Methods II: Introduction

Credits: 2

Asking researchable questions. Reviewing the literature. Hypothesis formulation. Research methodology emphasizes qualitative approaches but includes discussion of instrumentation, subject selection and data collection procedures. Andrews' human-subject—research review process. Informed consent. Writing assignments include theoretical essay, pilot study, second pilot study, research journal. Lab schedule will be arranged. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** BHSC 230 or STAT 285. **College Code:** CAS

SOCI 533 – Research Methods III: Advanced Research Design—Experimental and Survey

Credits: 2

The principles of designing, administering, interpreting, and writing experimental research, questionnaires and interview schedules. Survey also focuses on coding procedures and scale construction. Structured around a research project, and the interpretation of scientific reports and professional journals. Lab schedule will be arranged. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOCI 534. **Prerequisite(s):** BHSC 230 or STAT 285 and SOCI 532. **College Code:** CAS

SOCI 534 – Research Methods IV: Advanced Statistical Analysis & SPSS

Credits: 2

A study on advanced parametric and non-parametric techniques such as two-way ANOVA, regression and power. The utilization of SPSS in the analysis and interpretation of statistical data. An analysis of professional journals and reports with an emphasis on the statistical reasoning. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOCI 533. **Prerequisite(s):** BHSC 230 or STAT 285 and SOCI 532. **College Code:** CAS

SOCI 545 – Program Implementation and Evaluation

Credits: 2

Strategies for implementation. Review of various methods of evaluation with emphasis on measuring outcomes and assessing quality in community program development. **College Code:** CAS

SOCI 549 – Disaster Response and Emergency Operations

Credits: 2

Study of the phases of disaster response and recovery with attention to local, state and national roles and expectations. Models of emergency management operations including communication, coordination, and chief executive decision making under conditions of disaster response will be emphasized. Attention will be given to the problems and concerns of recovery of victims and communities and the implications of disaster recovery efforts. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BSAD426/BSAD 526; Evidence of Satisfactory completion of PDSERVICE course. modules, IS244 Developing and Managing Volunteers, and IS700 National Incident Management System. **College Code:** CAS

SOCI 550 – Social Policy

Credits: 2

Develops basic knowledge and skills for policy analysis, formulation and critical challenge within local and international contexts. Examines the determining factors affecting public policy in the United States as compared with other systems. Provides framework for analysis of social problems and policies, as they impact development and practice in human services. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 554 – Community Health & Human Disease

Credits: 2

Examines in-depth emerging issues in the behavioral sciences. May be repeated in different specialized areas. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable

College Code: CAS

SOCI 555 – Emergency Planning

Credits: 2

Principles of emergency planning used in any type of disaster. Includes working with volunteers, handling special events, evacuation, mass fatalities, planning for schools, and homeland security planning. Includes satisfactory completion of FEMA provided modules in Professional Development Series. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOCI 408 or SOCI 508; SOWK 408. **College Code:** CAS

SOCI 560 – Family Resource Management

Credits: 3

Principles of sound management of resources including time, money, and energy as they relate to individuals and groups throughout the lifespan, with emphasis on the family. **Grade Mode:** Normal (A–F,I,W) **Offering:** Odd years **College Code:** CAS

SOCI 565 – Demography

Credits: 3

Overview of the world's population; spatial dimensions of human populations; fertility concepts, measurements, trends, levels, and explanations; mortality and migration; population structures, life chances; population growth, economic development, and the environment. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOCI 575 – Topics in Sociology

Credits: 1–5

This topic course could be used to register for a study tour. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

SOCI 578 – Principles and Practice of Hazards Mitigation

Credits: 3

Study of preparedness as related to hazards in the local community with attention to means of mitigation as well as planning measures. Includes IS modules IS 271 Anticipating Hazardous Weather & Community Risk and IS 240 Hazardous Materials Prevention. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 208 and evidence of satisfactory completion of SOCI 408/SOWK 408. **College Code:** CAS

Biology

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Faculty

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David N. Mbungu
Marlene N. Murray-Nseula
Benjamin A. Navia
Denise L. Smith
Robert E. Zdor

Emeriti

Bill Chobotar
David A. Steen
John F. Stout
Dennis W. Woodland

Mission

The Department of Biology provides transformational education in the biological sciences for a diverse student population, set in the context of a Seventh-day Adventist Christian worldview. To achieve this mission we:

- Seek knowledge and develop skills for lifelong learning through rigorous research, teaching and learning in the biological sciences;
- Affirm faith, engender integrity and honor the Creator through personal mentoring, intentional study of life as God's creation, and the ethical practice of science; and
- Change the world by active service, promoting responsible living as stewards of creation, and preparing students for meaningful careers in church and society.

Each degree offered by the Department of Biology includes a common core curriculum and additional courses tailored to students' special needs. Highly motivated students may compete for the Biology Undergraduate Research Traineeship (BURT) program. For full details, consult your academic advisor.

Bachelors

Biology, Behavior/Mathematics Emphasis BS

Behavioral Neuroscience Core — 41-43

- PSYC 180 – Dealing with Your Mind Credits: 3
- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4

Choose one of the following sets of courses:

- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

OR

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

OR

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

Upper Division Core Courses

- BIOL 477 – Neurobiology Credits: 3
- PSYC 364 – Learning and Behavior Credits: 3
- PSYC 445 – Cognitive Psychology Credits: 3
- PSYC 449 – Neuropsychopharmacology Credits: 3
OR
- BIOL 450 – Neuropsychopharmacology Credits: 3

General Education

Completing the Behavioral Neuroscience core meets general education requirements for Interdisciplinary Social Science and both Physical and Life Sciences. Completing the Psychology/BNS major meets the general education requirement for Foundational Social Science.

BS: Biology

Behavior/Mathematics Emphasis — 28

- MATH 191 – Calculus I Credits: 4 or
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3 or
- BIOL 348 – General Ecology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3
- BIOL 484 – Animal Behavior Credits: 3

Mathematical Methods:

- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0 (taken repeatedly – see course description)
- MATH 426 – Mathematical Modeling in Biology Credits: 3

Research Project:

- BIOL 495 – Independent Research in Biology Credits: 0-4 (2 credits required)

Cognates

- SOCI 119 – Principles of Sociology Credits: 3
- RELT 385 – Bioethics and Christian Faith Credits: 3

Biology, Biomedical Science Emphasis BS

BS: Biology

All biology majors must complete the following core and cognate courses, along with the requirements for one emphasis.

Biology Core—27 credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0
- BIOL 305 – Scientific Communication Credits: 2
- BIOL 348 – General Ecology Credits: 3
- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3

Cognate Core—24 or 26 credits

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3

- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

Choose one of the following sets:

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

or

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

General Education Cognates—3 credits

- RELT 385 – Bioethics and Christian Faith Credits: 3

Choose one of the following (one of the latter two recommended):

- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4

- Students pursuing the premedical program will also need to take the following general education courses:
- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Biomedical Science Emphasis—12–14 credits

BCHM 421 must be included in the cognate core.

Select three of the following courses:

- BIOL 315 – Developmental Biology Credits: 3
- BIOL 464 – Systems Physiology Credits: 4
- BIOL 465 – Histology Credits: 3
- BIOL 475 – Biology of Bacteria Credits: 3

or

- PHTH 417 – Human Anatomy Credits: 3 and
- PHTH 427 – Human Anatomy Laboratory Credits: 1

Select at least 3 additional credits of any upper-division biology electives. You may select an additional course from the preceding list if you wish. (BIOL 495, BIOL 496 excluded.)

Senior Thesis

A minimum of 3 credits of BIOL 495 or HONS 497H. Biology majors may elect to complete a minimum of 3 credits of original research in a topic of mutual interest with a Department of Biology faculty member and present this original work in the form of a senior thesis. This research experience may be supported by a research scholarship.

Biology, Molecular Biology Emphasis BS

BS: Biology

All biology majors must complete the following core and cognate courses, along with the requirements for one emphasis.

Biology Core—27 credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0
- BIOL 305 – Scientific Communication Credits: 2
- BIOL 348 – General Ecology Credits: 3
- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3

Cognate Core—24 or 26 credits

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

Choose one of the following sets:

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

or

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

General Education Cognates—3 credits

- RELT 385 – Bioethics and Christian Faith Credits: 3

Choose one of the following (one of the latter two recommended):

- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4

Students pursuing the premedical program will also need to take the following general education courses:

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Molecular Biology Emphasis—12–13 credits

BCHM 421 must be included in the cognate core.

From Group A, select:

- BIOL 445 – Molecular Genetics Credits: 3
- And two additional courses (if BIOL 418 is selected, it must be taken with BIOL 419)

Also, select one of the following electives:

- BIOL 417 – Virology Credits: 3
 - BIOL 450 – Neuropsychopharmacology Credits: 3
 - BIOL 464 – Systems Physiology Credits: 4
 - BIOL 465 – Histology Credits: 3
 - BIOL 475 – Biology of Bacteria Credits: 3
 - BIOL 477 – Neurobiology Credits: 3
- or both
- BIOL 444 – Electron Microscopy in Biological Investigations Credits: 1 and
 - BIOL 446 – Electron Microscopy Laboratory Credits: 2

Senior Thesis

A minimum of 3 credits of BIOL 495 or HONS 497H. Biology majors may elect to complete a minimum of 3 credits of original research in a topic of mutual interest with a Department of Biology faculty member and present this original work in the form of a senior thesis. This research experience may be supported by a research scholarship.

Biology, Neurobiology Emphasis BS

BS: Biology

All biology majors must complete the following core and cognate courses, along with the requirements for one emphasis.

Biology Core—27 credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 280 – Biostatistics and Research Design Credits: 3

- BIOL 285 – Research Seminar in Biology Credits: 0
- BIOL 305 – Scientific Communication Credits: 2
- BIOL 348 – General Ecology Credits: 3
- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3

Cognate Core—24 or 26 credits

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

Choose one of the following sets:

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

or

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

General Education Cognates—3 credits

- RELT 385 – Bioethics and Christian Faith Credits: 3
Choose one of the following (one of the latter two recommended):
- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4

Students pursuing the premedical program will also need to take the following general education courses:

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Neurobiology Emphasis—12 credits

Include BCHM 421 and BCHM 422 in the cognate core.

- BIOL 477 – Neurobiology Credits: 3
- BIOL 450 – Neuropsychopharmacology Credits: 3 or
- BIOL 486 – Neurobiology of Mental Illness Credits: 3

At least 3 credits of coursework from each of the following course groupings:

Group A
Group C (BIOL 484 highly recommended)

Senior Thesis

A minimum of 3 credits of BIOL 495 or HONS 497H. Biology majors may elect to complete a minimum of 3 credits of original research in a topic of mutual interest with a Department of Biology faculty member and present this original work in the form of a senior thesis. This research experience may be supported by a research scholarship.

Biology, Neuroscience Emphasis BS

Behavioral Neuroscience Core — 41–43

- PSYC 180 – Dealing with Your Mind Credits: 3
- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4

Choose one of the following sets of courses:

- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3

- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

OR

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

OR

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

Upper Division Core Courses

- BIOL 477 – Neurobiology Credits: 3
- PSYC 364 – Learning and Behavior Credits: 3
- PSYC 445 – Cognitive Psychology Credits: 3

- PSYC 449 – Neuropsychopharmacology Credits: 3

OR

- BIOL 450 – Neuropsychopharmacology Credits: 3

General Education

Completing the Behavioral Neuroscience core meets general education requirements for Interdisciplinary Social Science and both Physical and Life Sciences. Completing the Psychology/BNS major meets the general education requirement for Foundational Social Science.

BS: Biology

Neuroscience Emphasis — 28

- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3
- BIOL 468 – Systems Physiology: Organismal Maintenance Credits: 3
- BIOL 484 – Animal Behavior Credits: 3
- two upper division electives from biology, biochemistry or psychology

Research Methods:

- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0

(Taken repeatedly – see course description)

- BIOL 305 – Scientific Communication Credits: 2

Research Project:

- BIOL 495 – Independent Research in Biology Credits: 0–4 (2 credits required)

Cognates:

- SOCI 119 – Principles of Sociology Credits: 3
- RELT 385 – Bioethics and Christian Faith Credits: 3

Biology, Secondary Education Emphasis BS

BS: Biology

All biology majors must complete the following core and cognate courses, along with the requirements for one emphasis.

Biology Core—27 credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0
- BIOL 305 – Scientific Communication Credits: 2
- BIOL 348 – General Ecology Credits: 3
- BIOL 371 – Genetics Credits: 3

- BIOL 372 – Cell and Molecular Biology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3

Cognate Core—24 or 26 credits

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

Choose one of the following sets:

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

or

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

General Education Cognates—3 credits

- RELT 385 – Bioethics and Christian Faith Credits: 3

Choose one of the following (one of the latter two recommended):

- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4

Students pursuing the premedical program will also need to take the following general education courses:

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Secondary Education Emphasis— 17 credits

Available only to those students obtaining secondary teacher certification. For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum

- BIOL 208 – Environmental Science Credits: 4
- BIOL 428 – Paleobiology Credits: 3
- BIOL 454 – Vertebrate Zoology Credits: 2
- BIOL 476 – Biodiversity of Vascular Plants Credits: 4
- BIOL 484 – Animal Behavior Credits: 3

Senior Thesis

A minimum of 3 credits of BIOL 495 or HONS 497H. Biology majors may elect to complete a minimum of 3 credits of original research in a topic of mutual interest with a Department of Biology faculty member and present this original work in the form of a senior thesis. This research experience may be supported by a research scholarship.

Biology, Special Emphasis BS

BS: Biology

All biology majors must complete the following core and cognate courses, along with the requirements for one emphasis.

Biology Core—27 credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0
- BIOL 305 – Scientific Communication Credits: 2
- BIOL 348 – General Ecology Credits: 3
- BIOL 371 – Genetics Credits: 3

- BIOL 372 – Cell and Molecular Biology Credits: 3
- BIOL 449 – Historical and Philosophical Biology Credits: 3

Cognate Core—24 or 26 credits

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

Choose one of the following sets:

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4

or

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

General Education Cognates—3 credits

- RELT 385 – Bioethics and Christian Faith Credits: 3

Choose one of the following (one of the latter two recommended):

- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4

Students pursuing the premedical program will also need to take the following general education courses:

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Special Emphasis—16 credits

In situations where students are preparing for a specific job opportunity or a graduate or professional program, the special emphasis may be considered if other degree programs are not adequate. Courses are to be selected from biology or other disciplines in consultation with a Department of Biology advisor. Credits must include coursework in at least two of three course groups—Group A: Cell and Molecular Biology, Group B: Structural and Functional Biology of Organisms, and Group C: Biodiversity and Environmental Biology; representation of all three groups is recommended. Departmental approval must be received before the beginning of the spring semester of the student's junior year.

Senior Thesis

A minimum of 3 credits of BIOL 495 or HONS 497H. Biology majors may elect to complete a minimum of 3 credits of original research in a topic of mutual interest with a Department of Biology faculty member and present this original work in the form of a senior thesis. This research experience may be supported by a research scholarship.

Biology, Zoology Emphasis BS

BS: Biology

All biology majors must complete the following core and cognate courses, along with the requirements for one emphasis.

Biology Core—27 credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 280 – Biostatistics and Research Design Credits: 3
- BIOL 285 – Research Seminar in Biology Credits: 0
- BIOL 305 – Scientific Communication Credits: 2
- BIOL 348 – General Ecology Credits: 3
- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3

- BIOL 449 – Historical and Philosophical Biology Credits: 3

Cognate Core—24 or 26 credits

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

Choose one of the following sets:

- PHYS 141 – General Physics I Credits: 4
 - PHYS 142 – General Physics II Credits: 4
- or
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
 - PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
 - PHYS 242 – Physics for Scientists and Engineers II Credits: 4
 - PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

General Education Cognates—3 credits

- RELT 385 – Bioethics and Christian Faith Credits: 3

Choose one of the following (one of the latter two recommended):

- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4

Students pursuing the premedical program will also need to take the following general education courses:

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Zoology Emphasis—16 credits

Select 16 credits of upper-division biology electives, which must include the following.

From Group B: Structural and Functional Biology of Organisms, select at least one of the following:

- BIOL 315 – Developmental Biology Credits: 3
- BIOL 464 – Systems Physiology Credits: 4
- BIOL 465 – Histology Credits: 3
- BIOL 477 – Neurobiology Credits: 3
- PHTH 417 – Human Anatomy Credits: 3 along with
- PHTH 427 – Human Anatomy Laboratory Credits: 1

From Group C: Biodiversity and Environmental Biology, take at least one of the following plant biology courses:

- BIOL 455 – Medical Botany Credits: 3
- BIOL 456 – Marine Botany Credits: 3.5
- BIOL 476 – Biodiversity of Vascular Plants Credits: 4

From Group C: Biodiversity and Environmental Biology, take at least one of the following zoology courses:

- BIOL 428 – Paleobiology Credits: 3
- BIOL 454 – Vertebrate Zoology Credits: 3
- BIOL 458 – Marine Invertebrates Credits: 3.5
- BIOL 459 – Entomology Credits: 3
- BIOL 479 – Marine Ecology Credits: 3.5
- BIOL 484 – Animal Behavior Credits: 3
- BIOL 487 – Biogeography Credits: 3

Senior Thesis

A minimum of 3 credits of BIOL 495 or HONS 497H. Biology majors may elect to complete a minimum of 3 credits of original research in a topic of mutual interest with a Department of Biology faculty member and present this original work in the

form of a senior thesis. This research experience may be supported by a research scholarship.

Undergraduate Minors

Biology Minor

Minor Requirements

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 449 – Historical and Philosophical Biology Credits: 3
- Other credits may be drawn from remaining courses in the biology core, or electives in Group A: Cell and Molecular Biology, Group B: Structural and Functional Biology of Organisms, and Group C: Biodiversity and Environmental Biology.

Total Credits: 22

Environmental Science Minor

Electives

Suggested electives chosen in consultation with the advisor include:

- BIOL 454 – Vertebrate Zoology Credits: 3
- BIOL 456 – Marine Botany Credits: 3.5
- BIOL 458 – Marine Invertebrates Credits: 3.5
- BIOL 459 – Entomology Credits: 3
- BIOL 476 – Biodiversity of Vascular Plants Credits: 4
- BIOL 479 – Marine Ecology Credits: 3.5
- BIOL 484 – Animal Behavior Credits: 3
- BIOL 487 – Biogeography Credits: 3
- CHEM 340 – Environmental Chemistry Credits: 4
- GEOG 240 – Physical Geography Credits: 3
- PLSC 435 – Public Policy Credits: 3

Total Credits: 28

Masters

Biology MAT

Designed to prepare students for teaching biology in secondary schools, this degree is offered through the School of Education. A minor or its equivalent in biology on the undergraduate level is a prerequisite. In consultation with the department chair or the graduate program director, a minimum of 12 (6 credits must be 500-level or above) credits from courses listed below may be applied toward this program.

Required courses are BIOL 550 or MSCI 526. For further information, see the School of Education section of this bulletin on here.

Biology MS

In addition to the general requirements for admission to and enrollment in graduate degree programs, students must meet the following departmental requirements.

Admission Requirements

- A bachelor's degree with major in biology or an approved, related discipline, including courses in cell/molecular biology, organismal physiology, developmental biology, genetics, and ecology.
- A minimum GPA of 3.00 (B) in the undergraduate major for admission to regular student status.
- Cognate sciences, including full-year courses in general chemistry, organic chemistry, and physics. Mathematics through calculus level is encouraged.

Degree Requirements

- The inclusion of BIOL 550, BIOL 681, BIOL 682.

- A written comprehensive examination (BIOL 670) completed before the end of the third semester in residence.
- A thesis earning 6 credits (two registrations for BIOL 699).
- A final oral examination in defense of the thesis.
- A minimum of 30 credits of approved course work and thesis.

Group A: Cell and Molecular Biology

- BIOL 415 – Genomics, Proteomics, and Bioinformatics Credits: 3
- BIOL 416 – Cell Signaling Mechanisms in Human Disease Credits: 3
- BIOL 418 – Immunology Credits: 2
- BIOL 419 – Immunology Lab Credits: 1
- BIOL 445 – Molecular Genetics Credits: 3

Group B: Structural and Functional Biology of Organisms

- BIOL 315 – Developmental Biology Credits: 3
- BIOL 316 – Human Embryology Credits: 1
- BIOL 444 – Electron Microscopy in Biological Investigations Credits: 1
- BIOL 446 – Electron Microscopy Laboratory Credits: 2
- BIOL 464 – Systems Physiology Credits: 4
- BIOL 465 – Histology Credits: 3
- BIOL 468 – Systems Physiology: Organismal Maintenance Credits: 3
- BIOL 477 – Neurobiology Credits: 3
- BIOL 486 – Neurobiology of Mental Illness Credits: 3
- BIOL 477 – Neurobiology Credits: 3

Group C: Biodiversity and Environmental Biology

- BIOL 208 – Environmental Science Credits: 4
- BIOL 417 – Virology Credits: 3
- BIOL 425 – Parasitology Credits: 3
- BIOL 428 – Paleobiology Credits: 3
- BIOL 454 – Vertebrate Zoology Credits: 3
- BIOL 455 – Medical Botany Credits: 3
- BIOL 456 – Marine Botany Credits: 3.5
- BIOL 458 – Marine Invertebrates Credits: 3.5
- BIOL 459 – Entomology Credits: 3
- BIOL 475 – Biology of Bacteria Credits: 3
- BIOL 476 – Biodiversity of Vascular Plants Credits: 4
- BIOL 479 – Marine Ecology Credits: 3.5
- BIOL 484 – Animal Behavior Credits: 3
- BIOL 487 – Biogeography Credits: 3

Biology

BIOL 100 – Human Biology

Credits: 4

This course is designed to provide students with a basic understanding of the structure and function of the human body. Emphasis is placed on the practical application of principles learned in the areas of nutrition, anatomy and physiology. Meets the life science general education requirement. Does not apply to major or minor. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

BIOL 105 – Techniques of Molecular Biology

Credits: 2

Lab-based introduction to techniques in molecular biology and their application to forensics. Does not apply to major or minor. Weekly: 1 lecture and a 3-hour lab **Grade Mode:** Normal (A–F,I,W) **Special Approval:** Only available for RESA students. **Offering:** Fall **College Code:** CAS

BIOL 110 – Principles of Biology

Credits: 4

A one-semester survey of the principles of biology as they apply to the study of biological molecules, cells, multicellular organisms, and ecosystems. The course will introduce key concepts of biological function, inheritance, adaptation, and diversity. Does not apply to major or minor. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

BIOL 165 – Foundations of Biology

Credits: 5 or 4

First semester of a full-year sequence addressing the foundational principles in biology. Explores the cellular and molecular basis of life, principles of heredity, biodiversity and classification of organisms excluding animals, and plant form and function. 5 credits when offered during the academic year, 4 credits when taken at the Rosario Beach Marine Laboratory during the summer. Weekly: 5 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

BIOL 166 – Foundations of Biology

Credits: 5 or 4

Second semester of a full-year sequence addressing the foundational principles in biology. Explores biodiversity and classification of animals, animal form and function, history of life on earth, and ecology. Five credits when offered during the academic year, 4 credits when taken at the Rosario Beach Marine Laboratory during the summer. Weekly: 5 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

BIOL 208 – Environmental Science

Credits: 4

Study of basic ecological principles as applied to human activities. Discussions deal with contemporary environmental issues. Lab includes field trips, guest speakers, and experiments. Meets the life science general education requirement and certain state educational certification requirements. May apply to biology major or minor. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring **College Code:** CAS

BIOL 221 – Anatomy and Physiology I

Credits: 4

First semester of a full-year sequence addressing the structure and function of the human organism. Surveys introductory biological chemistry, cell biology, histology, and the structure, function, and control of the integumentary, skeletal, muscular, nervous, and sensory systems. Does not apply to a major or minor. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

BIOL 222 – Anatomy and Physiology II

Credits: 4

Second semester of a full-year sequence addressing the structure and function of the human organism. Surveys the structure, function, and control of the endocrine, cardiovascular, circulatory, respiratory, urinary, digestive and reproductive systems. Does not apply to a major or minor. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 221 **Offering:** Spring **College Code:** CAS

BIOL 251 – Research Methods I

Credits: 1

An introduction to scientific research with a focus on data analysis. Topics include scientific epistemology, hypothesis formation, probability, normal distributions, sampling, descriptive statistics, graphing, statistical inference, t-tests, analysis of variance, correlation, linear regression, and chi-square. Weekly: 1 lecture/discussion. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 165, BIOL 166, MATH 145 or higher. **Offering:** Fall **College Code:** CAS

BIOL 252 – Research Methods II

Credits: 1

Background and experience in understanding and reporting scientific information. Topics include scientific writing, the nature of scientific literature, literature searches, critique of scientific papers, oral and poster presentations, ethics in scientific reporting, preparing manuscripts for journal submission, and writing grant proposals. Weekly: 1 lecture/discussion. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 251, COMM 104, ENGL 215. **Offering:** Spring **College Code:** CAS

BIOL 260 – General Microbiology

Credits: 4

Includes history, morphology, classification, control, growth, transmission, and pathogenicity of selected bacteria, viruses, rickettsia, fungi, and parasites. Covers the nature of host defenses against pathogens, including the acquisition of specific immunity and immune disorders. Does not apply to major or minor. Weekly: 3 lectures and two 1.5-hour labs \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

BIOL 280 – Biostatistics and Research Design

Credits: 3

An introduction to research design and statistical methods in quantitative biology. Topics include probability, basic study design, descriptive statistics, sampling, contingency tables, t-tests, one- and two-way analysis of variance, correlation, and simple linear regression. Both parametric and non-parametric techniques are explored. Computational exercises will use the R and SPSS packages. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 165, BIOL 166, MATH 145 or higher or MPE ≥ 3 **Offering:** Spring **College Code:** CAS

BIOL 285 – Research Seminar in Biology

Credits: 0

Required for at least 5 semesters for biology majors (or each semester for students who transfer into biology with less than 5 semesters remaining). Each registration will require students to attend and report on at least 3 departmentally approved research seminars during that semester. For semester: Attend and report on at least 3 approved research seminars. **Grade Mode:** Satisfactory (S,U,I,W)

Repeatable: Repeatable **Offering:** Fall, Spring **College Code:** CAS

BIOL 305 – Scientific Communication

Credits: 2

A practical introduction to scientific communication. This course will focus on developing the fundamental skills required to convey information in the form of grant proposals, oral and poster presentations and research articles. Weekly: 2 lectures **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** BIOL 280 **Prerequisite(s):** COMM 104 and ENGL 215. Honors students: HONS 115H. **Offering:** Fall, Spring **College Code:** CAS

BIOL 315 – Developmental Biology

Credits: 3

A study of the cellular and tissue-level events that result in the development of integrated organisms. Vertebrate and invertebrate model systems will be examined and compared with plants. Lab activities include vertebrate developmental anatomy and experimental approaches to understanding basic developmental processes. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166. **Offering:** Spring **College Code:** CAS

BIOL 316 – Human Embryology

Credits: 1

Acquaints students with the process of human development and embryology. Weekly: 1 lecture **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Prior or concurrent registration in BIOL 315 is recommended. **Offering:** Spring **College Code:** CAS

BIOL 330 – History of Earth and Life

Credits: 4

Survey of fundamental concepts of geology and paleontology with application to a study of the history of the earth and of life. Consideration is given to interactions of religious, philosophical, and geological ideas, within a biblical worldview. Meets the life science general education requirement. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

BIOL 348 – General Ecology

Credits: 3

Ecological principles as applied to individual, population, community, and ecosystem levels of organization. Labs feature the characterization of ecological systems using standard field and lab techniques. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 165, BIOL 166 or BIOL 208 **Offering:** Fall **College Code:** CAS

BIOL 371 – Genetics

Credits: 3

Mechanisms of heredity are considered in light of classical population and molecular genetics. Labs feature experience in *Drosophila* genetics, chromosome analysis, statistical techniques, and recombinant DNA technology. Weekly: 2 lectures, a recitation and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166, and completion of or simultaneous enrollment in CHEM 131. **Offering:** Fall **College Code:** CAS

BIOL 372 – Cell and Molecular Biology

Credits: 3

Information from molecular biology, biochemistry, biophysics, physical chemistry, and electron microscopy are integrated to present the cell as a functional unit. Labs provide experience in the collection and analysis of quantitative data about cells. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166, and completion of or simultaneous enrollment in CHEM 132. **Offering:** Spring **College Code:** CAS

BIOL 405 – Topics in _____

Credits: 1–4

Investigates various specialties of biology. One lecture or lab for each credit taken **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable with different topics **Offering:** Fall, Spring, Summer **College Code:** CAS

BIOL 415 – Genomics, Proteomics, and Bioinformatics

Credits: 3

An examination of the wealth of information to be found in our genomes and proteomes, the techniques used to produce and analyze these data, and its implications for biomedicine and related fields. Online databases and bioinformatics tools will be used extensively. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 165 and BIOL 166. Laptop required. **Offering:** Spring, even years **College Code:** CAS

BIOL 416 – Cell Signaling Mechanisms in Human Disease

Credits: 3

Study of how cells communicate with themselves and with each other through complex signaling pathways, and how the disintegration of these pathways leads to many common diseases. Lab will address current research problems in cell signaling and focus on mammalian cell culture techniques used to address these problems. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 165 and BIOL 166. **Offering:** Spring, odd years **College Code:** CAS

BIOL 417 – Virology

Credits: 3

An introduction to virus classification, structure and function. This course will present a survey of viruses that highlights species of human or animal health significance. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 165 and BIOL 166 **Offering:** Spring, as scheduled **College Code:** CAS

BIOL 418 – Immunology

Credits: 2

Topics include organs and cells of the immune system, antigens, immunoglobulins, the MHC, antibody diversity, tolerance and memory, complement, cell mediated immunity, regulation, hypersensitivity, autoimmune diseases, transplantation, and tumor immunology. Weekly: 2 lectures Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166. **Offering:** Spring **College Code:** CAS

BIOL 419 – Immunology Lab

Credits: 1

A theoretical and practical study of techniques used in modern immunology. Includes immunoserological methods; isolation and detection of immunoglobulin molecules in immune serum by SDS–PAGE, western blotting, and immunofluorescence antibody (IFA) methods; enzyme-linked immunosorbent assay (ELISA), in vitro phagocytosis. Weekly: 1 lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Previous or simultaneous enrollment in BIOL 418. **Offering:** Spring **College Code:** CAS

BIOL 425 – Parasitology

Credits: 3

Study of parasites, with emphasis on better known parasites of humans and animals. Attention given to ecological factors concerned with host–parasite contact, pathogenicity and pathology, and treatment and effect on parasitized populations. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166. **Offering:** Fall **College Code:** CAS

BIOL 428 – Paleobiology

Credits: 3

Covers various specialties including general and vertebrate paleontology. Surveys the origins, history, adaptations, diversity and paleoecology of ancient organisms as documented by the fossil record. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166. **Repeatable:** Repeatable with different topics **Offering:** Fall, even years **College Code:** CAS

BIOL 444 – Electron Microscopy in Biological Investigations

Credits: 1

The theory, functions, and use of the transmission and scanning electron microscopes. Weekly: 1 lecture Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, odd years **College Code:** CAS

BIOL 445 – Molecular Genetics

Credits: 3

An advanced consideration of the structure, function, and manipulation of nucleic acids and application of molecular information in other disciplines. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 371. **Offering:** Spring, odd years **College Code:** CAS

BIOL 446 – Electron Microscopy Laboratory

Credits: 2

Lab preparation of tissues for transmission and scanning electron microscopy with hands–on experience with the ultramicrotome and both T.E.M. and S.E.M. instruments. Acceptable photographs with interpretations required with lab reports on appropriate research projects. Weekly: two 3–hour labs \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Prior or concurrent registration in BIOL 444 **Offering:** Spring, odd years **College Code:** CAS

BIOL 449 – Historical and Philosophical Biology

Credits: 3

Examination of biological, paleontological, and geological concepts central to the study of historical events in biological systems. Considers the interactions of data, theories, and extra scientific concepts in historical biology, within the particular context of a biblical worldview. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166. **Offering:** Spring **College Code:** CAS

BIOL 450 – Neuropsychopharmacology

Credits: 3

A study of the mechanisms of actions of psychotropic agents and how they affect human perception and behavior. Emphasis is placed on the organization and function of the nervous system and the molecular and biochemical basis of drugs used to treat behavioral and clinical disorders. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101 or PSYC 180; BIOL 221, BIOL 222 or BIOL 165, BIOL 166. **Offering:** Spring **College Code:** CAS

BIOL 453 – Biology Seminar

Credits: 1

This course provides a capstone experience for senior biology majors. Guest speakers and readings focus on ethical dilemmas in science, medicine, dentistry, and science–related public policy issues. The course also serves as a venue for senior biology majors to report results of research projects completed under BIOL495. Weekly: 1 lecture/discussion. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 252, senior status. **Offering:** Spring **College Code:** CAS

BIOL 454 – Vertebrate Zoology

Credits: 3

Covers the various specialties of vertebrate biology, including herpetology, ornithology, and mammalogy. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Course Attribute:** Service course **Grade Mode:** Normal (A–F,I,W) **Special Approval:** Open to non–science majors. **Offering:** Vertebrate Zoology: Mammalogy (Fall, even years), Vertebrate Zoology: Ornithology (Spring, even years) **College Code:** CAS

BIOL 455 – Medical Botany

Credits: 3

Designed as an interface between botany, medicine, anthropology and pharmacology to define the impact plants have with the remedial, harmful or psychoactive health of humans. Weekly: 3 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, as scheduled **College Code:** CAS

BIOL 456 – Marine Botany

Credits: 3.5

A systematic study of the marine plants found in Puget Sound, with a survey of marine plants from other areas. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Summer, as scheduled, only at the Rosario Beach Marine Laboratory **College Code:** CAS

BIOL 458 – Marine Invertebrates

Credits: 3.5

Biology of invertebrates studied in the marine environment of Puget Sound. A survey of the various phyla is conducted by studying the living animals in the field, and by tide pool observation, dredging, and scuba diving. A project on a specific group or species is required. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Summer, as scheduled, only at the Rosario Beach Marine Laboratory **College Code:** CAS

BIOL 459 – Entomology

Credits: 3

Study of the fundamental aspects of insect biology. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

BIOL 464 – Systems Physiology

Credits: 4

Functional processes used by animals in adjusting to their external environment and controlling their internal environment. Labs involve the firsthand analysis of selected aspects of the major functional systems. Weekly: 3 lectures and a 3.5–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166, CHEM 131. **Offering:** Fall **College Code:** CAS

BIOL 465 – Histology

Credits: 3

Microscopic anatomy, cytology, ultrastructure of tissues and organ systems are correlated with function. Emphasis on normal tissues of vertebrates. Weekly: 2 lectures and a 3–hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

BIOL 468 – Systems Physiology: Organismal Maintenance

Credits: 3

Functional processes that control an animal's internal environment. This course is the same as BIOL 464 but excludes the material on the nervous system. Students who have taken BIOL 477 begin the course later in the semester. Weekly: 3 lectures and a 3.5–hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 477 **Offering:** Fall **College Code:** CAS

BIOL 475 – Biology of Bacteria

Credits: 3

Study of the properties of bacteria that illustrate their function and relationship to other living systems. Topics include structure and function, classification, and interaction with the environment. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166; Organic Chemistry recommended (CHEM 231, CHEM 232, CHEM 241, CHEM 242). **Offering:** Fall **College Code:** CAS

BIOL 476 – Biodiversity of Vascular Plants

Credits: 4

A taxonomic and morphological study of vascular plants emphasizing the plants found in the Great Lakes area. Field trips. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Special Approval:** Open to non-science majors. **Offering:** Fall, even years **College Code:** CAS

BIOL 477 – Neurobiology

Credits: 3

The neural basis of behavior, with some emphasis on the human nervous system, including cellular and molecular approaches to neuron function, development of neurons and circuits, and neuro-endocrine mechanisms. Labs develop skills in electrophysiology and neuroanatomy. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166 **Offering:** Fall **College Code:** CAS

BIOL 478 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

BIOL 479 – Marine Ecology

Credits: 3.5

A study of interspecific, intraspecific, and community relationships demonstrated by marine organisms. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Summer, as scheduled, only at the Rosario Beach Marine Laboratory **College Code:** CAS

BIOL 484 – Animal Behavior

Credits: 3

Behavior of animals including considerations of social interactions, learning processes, instinct, motivation, experimental methods, and the analysis of behavior patterns characteristic of various species. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166 **Offering:** Fall, odd years **College Code:** CAS

BIOL 486 – Neurobiology of Mental Illness

Credits: 3

An exploration of the neurobiological basis of mental disorders, with emphasis on those of special concern in society today (such as aging- and stress-related disorders). Current therapeutic approaches will be discussed. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 450 or BIOL 464 or BIOL 477 or PSYC 449 **Offering:** Spring, even years **College Code:** CAS

BIOL 487 – Biogeography

Credits: 3

The distribution of plants and animals in relation to their environment, including consideration of major biogeographic regions of the world and the role of distribution in adaptive change and diversification of life in the past and present. Weekly: 2 lectures and a 3-hour conference period \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, as scheduled **College Code:** CAS

BIOL 495 – Independent Research in Biology

Credits: 0–4

An independent research project in biology under the direction of a biology instructor. A minimum of 4 hours work per week is required for each credit earned (and for the 0-credit option), and a written paper is required. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **Special Approval:** Instructor permission required. **Offering:** Fall, Spring, Summer **College Code:** CAS

BIOL 496 – Independent Study in Biology

Credits: 1–4

Independent study of a selected field in biology under the direction of a biology instructor. A minimum of 4 hours work per week is required for each credit earned and a written paper is required. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Special Approval:** Instructor permission required. **Offering:** Fall, Spring, Summer **College Code:** CAS

BIOL 516 – Behavior of Marine Organisms

Credits: 3.5

Study of inter- and intra-specific behavior of marine animals and their behavioral response to the physical environment. Involves lab experience, field observation, and a research project. **Grade Mode:** Normal (A–F,I,W) **Special Approval:** Instructor permission required. **Offering:** Summer, as scheduled, only at the Rosario Beach Marine Laboratory **College Code:** CAS

BIOL 520 – Molecular and Developmental Neurobiology

Credits: 2

A seminar course that deals in depth with current and relevant issues in the areas of molecular and developmental neurobiology. Weekly: 2 lectures **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, as scheduled **College Code:** CAS

BIOL 530 – Molecular Laboratory Techniques

Credits: 3

Acquaints students with modern lab techniques of molecular biology. The manipulation and study of nucleic acids and proteins using model systems involving plant-microbe interactions. Weekly: 2 labs \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

BIOL 550 – Issues in Origins and Speciation

Credits: 3

A comparative survey of the assumptions, attitudes, methods, and conclusions of science and religion in the handling of data. Attention is given to current scientific data and their relationship to an understanding of earth history and the present diversity of life. Weekly: 3 lectures **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

BIOL 590 – Topics in _____

Credits: 1–4

Investigates various specialties of biology. One-hour lecture or a 3-hour lab for each credit **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable with different topics **Offering:** As scheduled **College Code:** CAS

BIOL 648 – Workshop

Credits: 1–4

Grade Mode: Satisfactory (S,U,I,W) **Repeatable:** Repeatable **College Code:** CAS

BIOL 655 – Program Continuation

Credits: 0

Students may register for this non-credit continuation course to maintain active status. For additional information on active status, refer to the Graduate Academic Policies. Registration does not indicate full-time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

BIOL 660 – Thesis Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full-time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

BIOL 670 – Comprehensive Exam

Credits: 0

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

BIOL 681 – Research Methods and Biology Seminar

Credits: 1

An introduction to graduate studies in biology, the nature and methods of science, and principles of research ethics. Weekly: 1 lecture **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Offering:** Fall **College Code:** CAS

BIOL 682 – Research Methods and Biology Seminar

Credits: 1

In this second semester of Research Methods and Biology Seminar, graduate students report to the group on topics from current literature and on specific problems in biology. Weekly: 1 lecture **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Offering:** Spring **College Code:** CAS

BIOL 690 – Independent Study

Credits: 1–4

Independent study in biology under the direction of the instructor. Consent of instructor required. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Fall, Spring, Summer **Repeatable:** Repeatable **College Code:** CAS

BIOL 697 – Research in Biology

Credits: 1–4

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 4 credits **Offering:** Arranged **College Code:** CAS

BIOL 699 – Master’s Thesis

Credits: 3

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 6 credits **Offering:** Arranged **College Code:** CAS

Chemistry & Biochemistry

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269-471-324
chemistry@andrews.edu
www.andrews.edu/chem/

Faculty

D. David Nowack, *Chair*
Lisa Ahlberg
Ryan Hayes
Getahun Merga
Desmond H. Murray
David W. Randall
John Rorabeck

Academic Programs	Credits
BS: Biochemistry	38
BS: Biochemistry (Approved by the American Chemical Society Committee on Professional Training)	45
BS: Chemistry	38
BS: Chemistry (Approved by the American Chemical Society Committee on Professional Training)	44
BS: Chemistry (Secondary Education Emphasis)	44
Minor in Chemistry	20
Minor in Chemistry (Secondary Education Emphasis)	24

Mission

The mission of the Department of Chemistry & Biochemistry within the context of a Seventh-day Adventist Christian worldview is to assist all students to excel in developing their analytical and critical reasoning skills, using fundamental chemical principles and computational methods; prepare our chemistry and biochemistry majors to enter graduate school, professional school, the chemical industry, or the teaching profession, in a diverse world; develop in our students an understanding of responsible, environmentally sensitive use of global resources; engage students and faculty in the process of discovery and creativity in the research lab and the classroom to model a life of personal and professional integrity.

Students who plan to major in chemistry or biochemistry are expected to have entrance credit in the preparatory subjects of chemistry and mathematics (including algebra and trigonometry); a background in physics is desirable. Those who do not have entrance credit or equivalent training in these subjects, particularly mathematics, may not fulfill the department graduation requirements in four years.

Students are encouraged to plan early for an on-campus or off-campus research experience required of all students in the Bachelor of Science degree programs in chemistry and biochemistry (ACS) and strongly recommended for those in the Bachelor of Science degree program in biochemistry. This experience may take the form of a cooperative educational research experience or research in an academic, industrial, or governmental laboratory setting. Interested students should consult the department chair.

American Chemical Society Certification

Students desiring American Chemical Society certification must

- Complete the required courses for the (ACS) Bachelor of Science degree in chemistry or biochemistry as spelled out in this bulletin.
- Achieve a minimum GPA of 3.00 in all chemistry courses taken at Andrews University.
- Satisfactorily complete a research or cooperative educational experience in chemistry.

A complete statement of certification requirements is available from the department chair.

Bachelors

Biochemistry BS

Core Requirements for Chemistry or Biochemistry:

Core Courses—34

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 200 – Quantitative Analysis Credits: 4
- CHEM 210 – Current Chemistry Topics Credits: 0
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1
- CHEM 311 – Seminar in Chemistry Credits: 0.5
- CHEM 312 – Seminar in Chemistry Credits: 0.5
- CHEM 400 – Chemical Separations and Analysis Credits: 2
- CHEM 411 – Seminar in Chemistry Credits: 0.5
- CHEM 412 – Seminar in Chemistry Credits: 0.5
- CHEM 430 – Instrumental Analysis Credits: 2
- CHEM 431 – Physical Chemistry I Credits: 3
- CHEM 441 – Physical Chemistry Laboratory I Credits: 1
- BCHM 421 – Biochemistry I Credits: 4

Note:

* CHEM 210 is required every semester for students of freshman and sophomore class standing.

Major Requirements:

Core plus:

- BCHM 422 – Biochemistry II Credits: 3
- BCHM 430 – Biochemistry Lab Credits: 1

Cognate Courses:

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4
- or**
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

two courses selected from

- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3
- FDNT 485 – Nutrition and Metabolism Credits: 3
- BIOL 315 – Developmental Biology Credits: 3
- BIOL 464 – Systems Physiology Credits: 4
- BIOL 465 – Histology Credits: 3

Note:

Students desiring a career in biochemistry might be better served by pursuing the ACS Bachelor of Science degree in biochemistry, but the Bachelor of Science degree in biochemistry can be strengthened by the addition of CHEM 415 – Advanced Inorganic Chemistry and CHEM 495 – Advanced Independent Research.

Total Credits: 38

Biochemistry BS (ACS Approved

(American Chemical Society approved)

Core Requirements for Chemistry or Biochemistry:

Core Courses—34

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 200 – Quantitative Analysis Credits: 4
- CHEM 210 – Current Chemistry Topics Credits: 0
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1
- CHEM 311 – Seminar in Chemistry Credits: 0.5
- CHEM 312 – Seminar in Chemistry Credits: 0.5
- CHEM 400 – Chemical Separations and Analysis Credits: 2
- CHEM 411 – Seminar in Chemistry Credits: 0.5
- CHEM 412 – Seminar in Chemistry Credits: 0.5
- CHEM 430 – Instrumental Analysis Credits: 2
- CHEM 431 – Physical Chemistry I Credits: 3
- CHEM 441 – Physical Chemistry Laboratory I Credits: 1
- BCHM 421 – Biochemistry I Credits: 4

Note:

* CHEM 210 is required every semester for students of freshman and sophomore class standing.

Major Requirements:

Core plus:

- BCHM 422 – Biochemistry II Credits: 3
- BCHM 430 – Biochemistry Lab Credits: 1
- CHEM 415 – Advanced Inorganic Chemistry Credits: 4
- CHEM 432 – Physical Chemistry II Credits: 3

Research/Cooperative Experience:

An on-campus or off-campus research or cooperative educational experience. The student may satisfy this requirement by matriculating in:

- CHEM 495 – Advanced Independent Research Credits: 0–4 , or
- HONS 497H – Senior Honors Project Credits: 2–4

Cognate Courses:

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4

- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4

- MATH 192 – Calculus II Credits: 4
- MATH 286 – Differential Equations Credits: 3

- CPTR 125 – Introduction to Computer Programming Credits: 3 **or**
- CPTR 151 – Computer Science I Credits: 4

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

one course selected from the following:

- BIOL 371 – Genetics Credits: 3
- BIOL 418 – Immunology Credits: 2

Note:

Courses in economics and marketing are strongly recommended. Students desiring American Chemical Society certification must achieve a minimum GPA of 3.00 in all chemistry courses taken at Andrews University.

Total Credits: 45

Chemistry BS

Core Requirements for Chemistry or Biochemistry:

Core Courses—34

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 200 – Quantitative Analysis Credits: 4
- CHEM 210 – Current Chemistry Topics Credits: 0
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1
- CHEM 311 – Seminar in Chemistry Credits: 0.5
- CHEM 312 – Seminar in Chemistry Credits: 0.5
- CHEM 400 – Chemical Separations and Analysis Credits: 2
- CHEM 411 – Seminar in Chemistry Credits: 0.5
- CHEM 412 – Seminar in Chemistry Credits: 0.5
- CHEM 430 – Instrumental Analysis Credits: 2
- CHEM 431 – Physical Chemistry I Credits: 3
- CHEM 441 – Physical Chemistry Laboratory I Credits: 1
- BCHM 421 – Biochemistry I Credits: 4

Note:

* CHEM 210 is required every semester for students of freshman and sophomore class standing.

Major Requirements:

Core plus:

- CHEM 415 – Advanced Inorganic Chemistry Credits: 4

Research/Cooperative Experience:

An on-campus or off-campus research or cooperative educational experience. The student may satisfy this requirement by matriculating in:

- CHEM 495 – Advanced Independent Research Credits: 0–4
- HONS 497H – Senior Honors Project Credits: 2–4
- IDSC 380 – Cooperative Education in _____(subject area) Credits: 0.5 or 1

Cognate Courses:

- CPTR 125 – Introduction to Computer Programming Credits: 3 **or**
- CPTR 151 – Computer Science I Credits: 4

- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4

- MATH 192 – Calculus II Credits: 4
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

Total Credits: 38

Chemistry BS (ACS approved)

(American Chemical Society approved)

Core Requirements for Chemistry or Biochemistry:

Core Courses—34

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 200 – Quantitative Analysis Credits: 4
- CHEM 210 – Current Chemistry Topics Credits: 0
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1
- CHEM 311 – Seminar in Chemistry Credits: 0.5
- CHEM 312 – Seminar in Chemistry Credits: 0.5
- CHEM 400 – Chemical Separations and Analysis Credits: 2
- CHEM 411 – Seminar in Chemistry Credits: 0.5
- CHEM 412 – Seminar in Chemistry Credits: 0.5
- CHEM 430 – Instrumental Analysis Credits: 2
- CHEM 431 – Physical Chemistry I Credits: 3
- CHEM 441 – Physical Chemistry Laboratory I Credits: 1
- BCHM 421 – Biochemistry I Credits: 4

Note:

* CHEM 210 is required every semester for students of freshman and sophomore class standing.

Major Requirements:

Core plus:

- CHEM 415 – Advanced Inorganic Chemistry Credits: 4
- CHEM 432 – Physical Chemistry II Credits: 3
- CHEM 442 – Physical Chemistry Laboratory II Credits: 1

and one course selected from the following:

- CHEM 470 – Modern Synthetic Techniques Credits: 2
- CHEM 474 – Advanced Topics in Organic Chemistry Credits: 2
- CHEM 475 – Advanced Topics in Physical Chemistry Credits: 2

Research/Cooperative Experience:

An on-campus or off-campus research or cooperative educational experience. The student may satisfy this requirement by matriculating in:

- CHEM 495 – Advanced Independent Research Credits: 0–4, or
- HONS 497H – Senior Honors Project Credits: 2–4

Cognate Courses:

- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 286 – Differential Equations Credits: 3
- CPTR 125 – Introduction to Computer Programming Credits: 3 **or**
- CPTR 151 – Computer Science I Credits: 4
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

Note:

Courses in economics and marketing are strongly recommended.

A reading knowledge of German or French, although not required for professional undergraduate education in chemistry, is strongly recommended for students planning advanced study.

Students desiring American Chemical Society certification must achieve a minimum GPA of 3.00 in all chemistry courses taken at Andrews University.

Total Credits: 44

Chemistry BS (Secondary Education Emphasis

Students majoring in chemistry or biochemistry in preparation for teaching in secondary schools must complete the degree requirements for Chemistry BS, Chemistry BS (ACS approved), Biochemistry BS or Biochemistry BS (ACS Approved), and the general education requirements listed below. They must also consult with an advisor in the department of Teaching, Learning & Curriculum who can guide them through the teacher preparation program successfully. In order for Andrews University to recommend a student for certification, the Michigan Test for Teacher Certification (MTTC) subject area exams must be passed in both the major and minor chosen by the student.

Students minoring in chemistry in preparation for teaching in secondary schools must complete the degree requirements for Chemistry Minor, Secondary Education Emphasis.

General Education Requirements—Chemistry with Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum

Note the following specific requirements:

Religion—12

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3
- and a 3–credit elective chosen in consultation with your SED advisor

Language/Communication—9

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)—4

- Intermediate Language Credits: 4

History—6

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities—3

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences—8

- covered by professional degree requirements for majors and minors

Mathematics—3

- covered by professional degree requirements for majors
- minors take MATH 145 – Reasoning with Functions or higher-level course

Computer Literacy—3 (or competency exam)

- INFS 120 – Foundations of Information Technology Credits: 3

Service—4

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences—6

- GDPG 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education—3

- HLED 120 – Fit for Life Credits: 1
- plus two activity courses

Undergraduate Minors

Chemistry Minor

Degree Requirements

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1
- plus 4 credits of CHEM/BCHM courses that apply to a major in chemistry or biochemistry.

Total Credits: 20

Chemistry Minor (Secondary Education Emphasis)

Students minoring in chemistry in preparation for teaching in secondary schools must consult with an advisor in the department of Teaching, Learning & Curriculum who can guide them through the teacher preparation program successfully. In order for Andrews University to recommend a student for certification, the Michigan Test for Teacher Certification (MTTC) subject area exams must be passed in both the major and minor chosen by the student. For more information regarding Secondary Certification with a minor see the department of Teaching, Learning & Curriculum

Degree Requirements

- CHEM 131 – General Chemistry I
- CHEM 132 – General Chemistry II
- CHEM 200 – Quantitative Analysis
- CHEM 231 – Organic Chemistry I
- CHEM 232 – Organic Chemistry II
- CHEM 241 – Organic Chemistry Laboratory I
- CHEM 242 – Organic Chemistry Laboratory II
- BCHM 421 – Biochemistry I

Total Credits:24

Biochemistry

BCHM 120 – Introduction to Biological Chemistry

Credits: 4

A survey of major concepts in biochemistry such as structures of biological molecules, their functions, energy metabolism, regulation of biochemical pathways; for nursing, dietetics, and allied health students. Not applicable toward a major or minor in chemistry or biochemistry. Weekly: 3 lectures, 1 recitation and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 110 **Offering:** Spring **College Code:** CAS

BCHM 421 – Biochemistry I

Credits: 4

Study of the fundamental principles of enzyme kinetics and mechanisms based on the structure and chemistry of biomolecules including amino acids, carbohydrates, lipids, proteins, nucleotides, nucleic acids, and biological membranes. Weekly: 4 lectures Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 232 **Offering:** Fall **College Code:** CAS

BCHM 422 – Biochemistry II

Credits: 3

Continuation of BCHM 421 including selected topics of hormone and regulatory biochemistry, the study of the four primary neurotransmitter systems and an overview of selected human pathologies emphasizing cancer biochemistry and biology. Weekly: 3 lectures Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BCHM 421 **Offering:** Spring **College Code:** CAS

BCHM 430 – Biochemistry Lab

Credits: 1

Introduction to quantitative and qualitative methods for the isolation, purification and identification of biological materials and applications of enzyme kinetics. Weekly: 4 hours of lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BCHM 421 **Prerequisite/Corequisite:** BCHM 422 **Offering:** Spring **College Code:** CAS

Chemistry

CHEM 100 – Consumer Chemistry

Credits: 4

A one-semester course primarily for non-science majors presenting an introduction to fundamental concepts of chemistry to convey an appreciative understanding of the nature of chemistry and how it is applied to our daily lives. Topics of consumer chemistry to be studied will be selected from fuels, energy, polymers, fertilizers, pesticides, food and food additives, household cleaners, cosmetics and personal care chemicals, pharmaceuticals, and air and water pollution. Not applicable toward a major or minor in chemistry or biochemistry. Weekly: 3 lectures and a 3-hour lab \$ – Course or lab fee **Course Attribute:** Fulfills the General Education Physical Science requirement **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

CHEM 110 – Introduction to Inorganic and Organic Chemistry

Credits: 4

An introduction to the principles and applications of inorganic and organic chemistry; for nursing, dietetics, and allied health students. Not applicable toward a major or minor in chemistry or biochemistry. Weekly: 3 lectures, 1 recitation and a 3-hour lab \$ – Course or lab fee **Course Attribute:** Fulfills the General Education Natural/Physical Science requirement **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

CHEM 131 – General Chemistry I

Credits: 4

This first course in chemistry is for students planning to major in science and engineering. Topics include stoichiometry, atomic and molecular structure, bonding, states of matter, solutions, chemical kinetics, and chemical equilibrium. Weekly: 3 lectures, 2 recitations and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE greater than or equal to P3, or passing grade in MATH 165/MATH 168 or above, or MATH 191/MATH 195 **Recommended:** High school chemistry or physics strongly recommended. **Offering:** Fall **College Code:** CAS

CHEM 132 – General Chemistry II

Credits: 4

A continuation of CHEM 131 with topics including thermodynamics, acid and base chemistry, descriptive and nuclear chemistry. Weekly: 3 lectures, 2 recitations and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** a grade of C– or better in CHEM 131 **Offering:** Spring **College Code:** CAS

CHEM 195 – Independent Research I

Credits: 0–3

Students will either assist a faculty member in an ongoing research project or develop a project of their own with the help and approval of the faculty member in their areas of interest or study. This course is for students who are beginning to establish their knowledge of chemistry and biochemistry. Weekly: a minimum of 4 hours of work per credit \$ – Course or lab fee **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **Special Approval:** Permission of faculty member required. **Offering:** Arranged. Fall, Spring, Summer **College Code:** CAS

CHEM 200 – Quantitative Analysis

Credits: 4

Lecture topics include statistics, chemical equilibrium, titrimetric procedures, gravimetric procedures, and electrochemistry. Laboratory experiments include gravimetric procedures and titrimetric procedures of acid and base systems and redox systems, electrochemistry, and an introduction to instrumental methods. Weekly: 2 lectures and two 4-hour labs \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 132 **Offering:** Fall **College Code:** CAS

CHEM 210 – Current Chemistry Topics

Credits: 0

Attendance at departmental seminar series devoted to topics in current chemical research as presented by students, faculty, and guest speakers. Weekly: 1 seminar **Grade Mode:** Satisfactory (S,U,I,W) **Repeatable:** Repeatable and required each semester of all freshman and sophomore chemistry and biochemistry majors **Offering:** Fall, Spring **College Code:** CAS

CHEM 231 – Organic Chemistry I

Credits: 3

The chemistry of carbon-containing compounds with emphasis on nomenclature, molecular structure, spectra–structure relationships, and a mechanistic approach to organic reactions. Weekly: 3 lectures and 2 recitations **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 132 **Offering:** Fall **College Code:** CAS

CHEM 232 – Organic Chemistry II

Credits: 3

This course is a continuation of CHEM 231 Weekly: 3 lectures and 2 recitations **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** a grade of C– or better in CHEM 231 **Offering:** Spring **College Code:** CAS

CHEM 241 – Organic Chemistry Laboratory I

Credits: 1

Experiments related to the course content of CHEM 231. Weekly: one 4-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 231 or concurrent enrollment in CHEM 231 **Offering:** Fall **College Code:** CAS

CHEM 242 – Organic Chemistry Laboratory II

Credits: 1

Experiments related to the course content of CHEM 232. Weekly: one 4-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 232 or concurrent enrollment in CHEM 232 **Offering:** Spring **College Code:** CAS

CHEM 295 – Independent Research II

Credits: 0–3

Students will either assist a faculty member in an ongoing research project or develop a project of their own with the help and approval of the faculty member in their areas of interest or study. This course is for students who are establishing their knowledge of chemistry and biochemistry at the college level. Weekly: a minimum of 4 hours of work per credit \$ – Course or lab fee **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** A passing grade in CHEM132 required **Repeatable:** Repeatable **Special Approval:** Permission of faculty member required. **Offering:** Arranged. Fall, Spring, Summer **College Code:** CAS

CHEM 300 – Laboratory Glassblowing

Credits: 2

Practice of fundamental glassblowing skills common to both scientific and creative glassblowing. Two projects are required. The student may choose between scientific and creative projects. Not applicable toward a major or minor in chemistry or biochemistry. Does not meet the general education requirement in natural science. Weekly: 1 lecture demonstration and 4 hours of lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

CHEM 311 – Seminar in Chemistry

Credits: 0.5

Departmental seminar series devoted to topics in current chemical research as presented by students, faculty, and guest speakers. This course is required of, and open only to, junior chemistry and biochemistry majors, and attendance for both semesters is required for one credit. A deferred grade (DG) is assigned fall semester and is removed upon successful completion of CHEM 312. Weekly: 1 seminar **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Prerequisite(s):** CHEM 232 **Repeatable:** Repeatable up to 1 credit **Offering:** Fall **College Code:** CAS

CHEM 312 – Seminar in Chemistry

Credits: 0.5

Continuation of CHEM 311. This course is required of, and open only to, junior chemistry and biochemistry majors. Weekly: 1 seminar **Grade Mode:** Satisfactory (S,U,I,W) **Prerequisite(s):** CHEM 311 **Offering:** Spring **College Code:** CAS

CHEM 340 – Environmental Chemistry

Credits: 4

A survey of environmental and energy-related problems. Topics include air, soil, and water pollution, energy and other resources, solid wastes and recycling, and toxic chemicals. Not applicable toward a major in chemistry or biochemistry. Weekly: 3 lectures and a 4-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 132 **Recommended:** CHEM 200 or CHEM 232 strongly recommended **Offering:** Spring, odd years **College Code:** CAS

CHEM 400 – Chemical Separations and Analysis

Credits: 2

Theory and practice of analytical separations by extraction and chromatographic methods including flash column, thin layer, high pressure liquid, gas, and affinity chromatography. After separation, the components of mixtures are analyzed by a variety of spectroscopic techniques that may include nuclear magnetic resonance, infrared spectroscopy and/or mass spectrometry. Weekly: 1 lecture and a 4-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 200, CHEM 231, and CHEM 241 **Offering:** Spring **College Code:** CAS

CHEM 410 – Forensic Chemistry

Credits: 2

Principles of chemistry as applied to the methods of analysis and identification of drugs. Rules of evidence as they apply to testimony in court. Observation of drug-related court procedures. Weekly: 1 lecture and two 3-hour labs \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 200, CHEM 232 **Special Approval:** Participation must be arranged with the instructor at least 2 months prior to beginning of course. **Offering:** Spring **College Code:** CAS

CHEM 411 – Seminar in Chemistry

Credits: 0.5

First half of semester consists of two meetings per week: one is an introduction to chemical literature and computer searching of Chemical Abstracts and chemical databases, the other meeting is the regular seminar series presented by students, faculty, and invited speakers. During the semester, each student prepares and presents a seminar. This course is required of, and open only to, senior chemistry and biochemistry majors, and attendance for both semesters is required for one credit. A deferred grade (DG) is assigned fall semester and is removed upon successful completion of CHEM 412. Weekly: 2 meetings during first half of semester, one meeting remainder of semester **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** CHEM 312 **Offering:** Fall **College Code:** CAS

CHEM 412 – Seminar in Chemistry

Credits: 0.5

Continuation of CHEM 411. During the semester, each student prepares and presents a seminar. This course is required of, and open only to, senior chemistry and biochemistry majors. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 411 **Offering:** Spring **College Code:** CAS

CHEM 415 – Advanced Inorganic Chemistry

Credits: 4

Atomic and molecular structure, symmetry, group theory, solid state, acids and bases; structure, bonding, spectra, and reaction mechanisms of d-metal complexes, systematic chemistry of non-metals; organometallic chemistry and catalysis. Weekly: 4 lectures Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 232, CHEM 431 **Offering:** Spring **College Code:** CAS

CHEM 430 – Instrumental Analysis

Credits: 2

Theory and practice of chemical analysis by spectroscopic and electrochemical methods. Introduction to automated data collection and computer control of instruments. Operational theory that emphasizes hands-on student learning for a broad range of analytical instruments commonly used by industry and academia including: UV–Vis–NIR, fluorescence, atomic, and laser spectrophotometers; potentiostats; and analog and digital electronics. Weekly: 1 lecture and 4 hours of lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 200, MATH 192 **Offering:** Spring **College Code:** CAS

CHEM 431 – Physical Chemistry I

Credits: 3

Fundamental concepts in chemical thermodynamics, free energy, chemical equilibria, phase changes, solutions, molecular transport, chemical dynamics, and electrochemistry. Weekly: 3 lectures Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 200, MATH 192, PHYS 142 (or PHYS 242, PHYS 272) **Offering:** Fall **College Code:** CAS

CHEM 432 – Physical Chemistry II

Credits: 3

Wave mechanics, atomic and molecular structure, chemical bonding, atomic and molecular spectroscopies, and applications to chemical dynamics and statistical thermodynamics. Weekly: 3 lectures Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 431, MATH 286 **Recommended:** MATH 240 strongly recommended **Offering:** Spring **College Code:** CAS

CHEM 441 – Physical Chemistry Laboratory I

Credits: 1

Experiments related to the course content of CHEM 431. Weekly: one 4-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** concurrent enrollment in CHEM 431 **Offering:** Fall **College Code:** CAS

CHEM 442 – Physical Chemistry Laboratory II

Credits: 1

Experiments related to the course content of CHEM 432. Weekly: one 4-hour lab \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** concurrent enrollment in CHEM 432 **Offering:** Spring **College Code:** CAS

CHEM 470 – Modern Synthetic Techniques

Credits: 2

An advanced laboratory course designed to incorporate a wide variety of modern synthetic techniques of organic, organometallic, and inorganic chemistry. Weekly: two 4-hour labs \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 474, CHEM 415 or concurrent enrollment in CHEM 415 **Offering:** Spring **College Code:** CAS

CHEM 474 – Advanced Topics in Organic Chemistry

Credits: 2

Study of the principles of modern synthetic organic chemistry with applications from one or more of the following areas: natural product, medicinal, or polymer chemistry. Weekly: 2 lectures **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 232 **Offering:** Fall **College Code:** CAS

CHEM 475 – Advanced Topics in Physical Chemistry

Credits: 2

Advanced study of molecular spectroscopy, statistical thermodynamics, chemical dynamics, or the application of quantum mechanics. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 432 or CHEM 431 and permission of the instructor **College Code:** CAS

CHEM 495 – Advanced Independent Research

Credits: 0–4

Students will either assist a faculty member in an ongoing research project or develop a project of their own with the help and approval of the faculty member in their areas of interest or study. This course is for students who have a reasonably established knowledge of chemistry and biochemistry at the college level. Weekly: a minimum of 4 hours of work per credit \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** A passing grade in CHEM 232/CHEM 242 or (CHEM 200 and CHEM 231 /CHEM 241) required **Repeatable:** Repeatable **Special Approval:** Permission of faculty member required. **Offering:** Arranged. Fall, Spring, Summer **College Code:** CAS

CHEM 530 – Topics in Teaching Chemistry

Credits: 2–4

Each time the course is offered, it treats one of the following areas: • Concepts in Chemistry; Fundamental ideas of chemistry • Demonstrations; Simple experiments which illustrate chemical principles • Problem–Solving Strategies; Exploration into the mental processes and logic behind problem–solving; None of the above areas are to occur twice in one student’s program. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 232 **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

CHEM 540 – Topics in Chemistry

Credits: 2–4

Independent readings to be chosen in consultation with the instructor. A written report and an oral presentation covering the materials read are required. A minimum of 60 hours of work is required for each credit. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 431 **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

Communication

Nethery Hall, Room 224
269–471–6314; Fax 269–471–3125
commdept@andrews.edu
www.andrews.edu/comm/

Faculty

Delyse E. Steyn, Chair
Patrice Jones
Beverly J. Matiko
Debbie Michel
Melchizedek M. Ponniah
Desrene L. Vernon

Emerita

Luanne J. Bauer

Mission

The Department of Communication creates and fosters a diverse, Christian learning community dedicated to producing professionals of distinction committed to global service.

“Communicating for community” reflects the vision of the programs offered by the Department of Communication.

Communication is all about connection—successfully sharing messages and meaning. Communication competence is critical to being an effective leader. Lee Iacocca, chairman and CEO of Chrysler Corporation, said, “The most important thing I learned in school was how to communicate...you can have brilliant ideas, but if you can't get them across, your brains won't get you anywhere.”

The Department of Communication offers a variety of undergraduate programs as well as a master's program and graduate certificate program.

Lambda Pi Eta

Lambda Pi Eta is the National Communication Association (NCA) affiliated honor society.

Public Relations Student Society of America (PRSSA) Chapter

The Andrews University PRSSA chapter is affiliated with the Western Michigan Public Relations Society of America. At the national level students are eligible for PRSA's publications, scholarships, award programs, leadership training and a national conference.

Computer Policy

The Department of Communication regards the computer as a tool integral to the success of students in their professional development. It is required that all students purchase a laptop computer and software to meet the department guidelines. Because computer technology is continually changing, a revised policy is drafted in the fall semester. A list of software is available in the department. Specific requirements change so it is important to make sure the software listed is compatible with the laptop you choose to purchase. Use of the computer in the curriculum varies by course.

Internships

Communication Management Emphasis and Communication Media Technology Emphasis, Journalism, and PR majors must submit applications for required internships during the sophomore and/or junior year. Students must fulfill the required number of clock hours to meet the requirements for their degree. Communication majors are encouraged to participate in the internship program and must then submit applications for internships during the junior or senior year. Department approval must be obtained prior to the start of an internship. It is strongly recommended that students complete COMM 480 prior to submitting applications.

Practicum

Practicum refers to the out-of-class opportunities on campus and in the immediate area for developing skills valuable to the communication professional. Students are encouraged to apply to the department for such opportunities. These experiences will be documented in a Portfolio as evidence of the student's involvement in the practical application of theory.

Bachelors

Communication Arts, Secondary Education BS

Return to: Communication Programs

This degree, granted by the College of Arts & Sciences in cooperation with the Department of Teaching, Learning & Curriculum, prepares students to teach communication arts at the secondary level. For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree, see the department of Teaching, Learning & Curriculum

Core—10

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Foundational courses— 26–28

- COMM 280 – Voice and Diction Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- COMM 425 – Media Literacy Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3
- COMM 475 – Professional Presentations Credits: 3
- JOUR 330 – Advanced Media Writing Credits: 3
- JOUR 445 – Publication Production Credits: 3
- JOUR 455 – Media Law and Ethics Credits: 3
- JOUR 465 – Advanced Topics in Journalism: _____ Credits: 3

Note:

Students seeking Michigan State certification for elementary– or secondary–school teaching must take COMM 450.

General Education Requirements—Communication Arts with Secondary Certification

Note the following **specific** requirements:

Religion: 12*

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- Plus a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

History:

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences:

- Take one course from Life Science and one from Physical Science. Choose from General Education Program requirements.

Mathematics:

See professional degree requirements

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- plus two Fitness Education courses

Communication BA

Total Credits: 38

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A minor or a second major is required for this major.

- JOUR 140 – Media, Culture and Society Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- COMM 405 – Persuasion Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- COMM 475 – Professional Presentations Credits: 3

Choose one of the following:

- COMM 280 – Voice and Diction Credits: 3
- COMM 465 – Topics in Communication Arts:_____ Credits: 3
- Plus 3 credits of electives chosen in consultation with the advisor.

Communication, Communication Management Emphasis BA

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A second major or minor is not required.

- JOUR 140 – Media, Culture and Society Credits: 3
- COMM 389 – Internship in Communication Credits: 1–3

- COMM 454 – Topics in Communication:_____ Credits: 1–3
Organizational communication
- COMM 425 – Media Literacy Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- COMM 405 – Persuasion Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- COMM 475 – Professional Presentations Credits: 3
- PREL 460 – Development Credits: 3
- BSAD 355 – Management and Organization Credits: 3

Choose one of the following:

- COMM 280 – Voice and Diction Credits: 3
- COMM 465 – Topics in Communication Arts:_____ Credits: 3

Choose one of the following:

- BSAD 384 – Human Resource Management Credits: 3
- BSAD 436 – Motivation and Work Behavior Credits: 3

- Plus 8 credits of multi–disciplinary in consultation with the advisor

- Plus 3 credits of communication electives chosen in consultation with the advisor

Note:

Electives should reflect the emphasis in management and communication.

Communication, International Communication Emphasis BA

Total Credits: 60

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A second major or minor is not required.

- JOUR 140 – Media, Culture and Society Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- COMM 389 – Internship in Communication Credits: 1–3
- COMM 405 – Persuasion Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- COMM 475 – Professional Presentations Credits: 3

Choose one of the following:

- COMM 280 – Voice and Diction Credits: 3
- COMM 465 – Topics in Communication Arts:_____ Credits: 3

- Plus 3 credits of communication electives chosen in consultation with the advisor

- ANTH 200 – Cultural Anthropology Credits: 3
- PLSC 230 – International Relations Credits: 3
- PLSC 420 – Human Rights, Violations, and Reconciliations Credits: 3

- Plus 12 credits of multidisciplinary course electives chosen in consultation with the advisor.

Additional Requirement

The Adventist Colleges Abroad Program (full year or summer) or participation in the Student Missionary program or a comparable international experience is required.

Communication, Media Technology BA

Return to: Communication Programs

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A second major or minor is not required.

- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 455 – Media Law and Ethics Credits: 3
- JOUR 465 – Advanced Topics in Journalism: _____ Credits: 3
- COMM 425 – Media Literacy Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 405 – Persuasion Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3

Choose one of the following:

- COMM 280 – Voice and Diction Credits: 3
- COMM 465 – Topics in Communication Arts: _____ Credits: 3

Choose one of the following:

- JOUR 405 – Technology for Journalism Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3
- JOUR 460 – News Editing for Electronic Media Credits: 3

- and 2–3 credits of multi-disciplinary electives chosen in consultation with the advisor

Interdisciplinary Courses for Emphasis:

- COMM 389 – Internship in Communication Credits: 1–3
- And electives chosen in consultation with the advisor.

Cognate: (fulfills GE requirement)

Choose one of the following:

- PHTO 115 – Photography I Credits: 3
- PHTO 116 – Digital Photography I Credits: 3

Additional Requirement

- An internship in the area of Video Production is required.

Total Credits: 59

Electronic Journalism BFA

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Communication & Media Studies—21

- JOUR 140 – Media, Culture and Society Credits: 3
- COMM 425 – Media Literacy Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 405 – Persuasion Credits: 3
- JOUR 455 – Media Law and Ethics Credits: 3

Electronic Journalism—33

- PHTO 116 – Digital Photography I Credits: 3
- JOUR 405 – Technology for Journalism Credits: 3
- JOUR 460 – News Editing for Electronic Media Credits: 3
- JOUR 330 – Advanced Media Writing Credits: 3
- JOUR 441 – Intro to News Production Credits: 3
- JOUR 389 – Internship in Journalism Credits: 1–3
- JOUR 450 – Multimedia Journalism Credits: 3
- JOUR 375 – Photojournalism Credits: 3
- JOUR 442 – Advanced News Production Credits: 3
- JOUR 436 – Electronic News Magazine Production Credits: 3
- COMM 290 – Practicum Credits: 1–3
- JOUR 496 – Portfolio Credits: 1–3 (1 credit required)

Electives—10–12

- JOUR 440 – Magazine and Feature Writing Credits: 3
- DSGN 214 – Graphic Design I Credits: 3
- Any other Journalism, PR, Media, or Communication course that suits the student's academic goals.

General Education Requirements

Religion:

See General Education Program requirements

Language/Communication:

See General Education Program requirements

History:

See General Education Program requirements

Fine Arts/Humanities:

See General Education Program requirements

Life/Physical Sciences:

See General Education Program requirements

Mathematics:

See General Education Program requirements

Computer Literacy:

Choose one of the following:

- ART 130 – Introduction to Digital Media Credits: 3
- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- S–designated course: COMM 456 – Group Dynamics and Leadership

Social Sciences:

See General Education Program requirements

Fitness Education:

See General Education Program requirements

Total Credits: 75–77

Journalism BA

Total Credits: 38

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A minor or second major is required for this major.

- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 330 – Advanced Media Writing Credits: 3
- JOUR 375 – Photojournalism Credits: 3
- JOUR 389 – Internship in Journalism Credits: 1–3
- JOUR 445 – Publication Production Credits: 3
- JOUR 455 – Media Law and Ethics Credits: 3

Choose one of the following:

- COMM 320 – Interpersonal Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3

Choose 1 from

- COMM 425 – Media Literacy Credits: 3
- JOUR 405 – Technology for Journalism Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- JOUR 445 – Publication Production Credits: 3
- JOUR 441 – Intro to News Production Credits: 3
- JOUR 442 – Advanced News Production Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- JOUR 460 – News Editing for Electronic Media Credits: 3

Cognate:

(fulfills GE requirement)

Choose one of the following:

- PHTO 115 – Photography I Credits: 3
- PHTO 116 – Digital Photography I Credits: 3

Journalism, Media Studies BA

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3

- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A second major or minor is not required.

- COMM 425 – Media Literacy Credits: 3
- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 330 – Advanced Media Writing Credits: 3
- JOUR 389 – Internship in Journalism Credits: 1–3
- COMM 405 – Persuasion Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- ENGL 430 – Topics in _____ Credits: 1–4
- Plus 3 credits of communication electives chosen in consultation with the advisor

Choose one of the following:

- COMM 280 – Voice and Diction Credits: 3
- COMM 465 – Topics in Communication Arts: _____ Credits: 3

Choose one of the following:

- COMM 320 – Interpersonal Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3

Choose one of the following:

- JOUR 375 – Photojournalism Credits: 3
- JOUR 445 – Publication Production Credits: 3

Choose one of the following:

- JOUR 465 – Advanced Topics in Journalism: _____ Credits: 3
- JOUR 405 – Technology for Journalism Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3
- JOUR 460 – News Editing for Electronic Media Credits: 3
- Plus 13 credits of multi-disciplinary courses chosen in consultation with the advisor.

Additional Requirements

There must be at least one course in each of the three areas of art, design and the technical courses. An internship in an area of media is required.

Cognate:

(fulfills GE requirement)

Choose one of the following:

- PHTO 115 – Photography I Credits: 3
- PHTO 116 – Digital Photography I Credits: 3

Total Credits: 60

Public Relations BA

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major requirements:

A minor or second major is required for this major.

- PREL 255 – Introduction to Public Relations Credits: 3

- PREL 320 – Managing PR Campaigns and Special Events Credits: 3
- PREL 389 – Internship in Public Relations Credits: 1–3
- PREL 454 – Advanced Public Relations Credits: 3
- PREL 460 – Development Credits: 3
- PREL 465 – Advanced Topics in Public Relations: Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 445 – Publication Production Credits: 3

Choose one of the following:

- COMM 405 – Persuasion Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3

Total Credits: 38

Public Relations, International Public Relations BA

Communication Core

Required for each of the five majors and interdisciplinary emphases offered:

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 230 – Communication Practices Credits: 1
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Total Credits: 11

Major Requirements:

A second major or minor is not required.

- PREL 255 – Introduction to Public Relations Credits: 3
- PREL 320 – Managing PR Campaigns and Special Events Credits: 3
- PREL 389 – Internship in Public Relations Credits: 1–3
- PREL 454 – Advanced Public Relations Credits: 3
- PREL 460 – Development Credits: 3
- PREL 465 – Advanced Topics in Public Relations: Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 445 – Publication Production Credits: 3

Choose one of the following:

- COMM 405 – Persuasion Credits: 3
- COMM 456 – Group Dynamics and Leadership Credits: 3
- Plus 6 credits of communication electives chosen in consultation with the advisor
- PLSC 230 – International Relations Credits: 3
- PLSC 420 – Human Rights, Violations, and Reconciliations Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- Plus 9 credits of multi-disciplinary course electives chosen in consultation with the advisor.

Additional Requirement

The Adventist Colleges Abroad Program (full year or summer) or participation in the Student Missionary program or a comparable international experience is required.

Total Credits: 59

Undergraduate Minors

Advocacy of Public Policy Minor

Return to: Communication Programs

Degree Requirements

- COMM 405 – Persuasion Credits: 3
- COMM 425 – Media Literacy Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3
- JOUR 455 – Media Law and Ethics Credits: 3
- PLSC 420 – Human Rights, Violations, and Reconciliations Credits: 3
- PLSC 435 – Public Policy Credits: 3

Electives—3

- COMM 454 – Topics in Communication:_____ Credits: 1–3 Org comm.
- BHSC 440 – Topics in _____ Credits: 1–4 Peace and Conflict Resolution
- JOUR 465 – Advanced Topics in Journalism:_____ Credits: 3 Media Activism and Social Change

Recommended General Education

- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3

Total Credits: 21

Communication and Community Development Minor

Return to: Communication Programs

Degree Requirements

- COMM 436 – Intercultural Communication Credits: 3
- JOUR 465 – Advanced Topics in Journalism:_____ Credits: 3 Media Activism and Social Change
- SOCI 160 – Introduction to International Development Credits: 3
- PREL 460 – Development Credits: 3
- PLSC 420 – Human Rights, Violations, and Reconciliations

Electives—6 Credits

- PLSC 435 – Public Policy Credits: 3
- COMM 454 – Topics in Communication:_____ Credits: 1–3 Org Comm
- FDNT 469 – International Nutrition Credits: 2–3
- SOCI 408 – Emergency Preparedness Credits: 2
- SOCI 431 – Needs Assessment and Social Policy Credits: 3
- COMM 432 – Research Methods in Communication Credits: 3

Recommended General Education

- FNCE 206 – Personal Finance Credits: 2–3
- ECON 225 – Principles of Macroeconomics Credits: 3

Total Credits: 21

Communication and the Family Minor

Degree Requirements

- FMST 115 – Introduction to Family Studies Credits: 3
- COMM 320 – Interpersonal Communication Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 445 – Family Communication Credits: 3

- COMM 446 – Gender Communication Credits: 3

Electives—6

- FMST 310 – Parent–Child Relationships Credits: 3
- FMST 460 – Family Resource Management Credits: 3

Recommended General Education

- FDNT 230 – Nutrition Credits: 3

Total Credits: 21

Communication Arts, Secondary Education Minor

(Secondary Education)

Available only to those students obtaining secondary teacher certification. For more information regarding Secondary Certification with a minor see the department of Teaching, Learning & Curriculum

Degree Requirements

- COMM 215 – Introduction to Communication Theory Credits: 4
- COMM 480 – Communicating for Community Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3
- and 10 credits of electives selected from foundational courses of the major.

Total Credits: 20

Communication Studies Minor

Students apply to the department for this minor. When accepted, each student designs minor in consultation with departmental minor advisor to ensure that the plan of study is appropriate for the student’s goals. Communication–core classes are recommended.

Degree Requirements

- At least 10 credits must be upper division.

Total Credits: 20

Electronic Journalism Minor

Degree Requirements

- JOUR 230 – Beginning Media Writing Credits: 3
- JOUR 460 – News Editing for Electronic Media Credits: 3
- JOUR 441 – Intro to News Production Credits: 3
- JOUR 442 – Advanced News Production Credits: 3
- JOUR 436 – Electronic News Magazine Production Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3

Choose one of the following:

- JOUR 375 – Photojournalism Credits: 3
- JOUR 405 – Technology for Journalism Credits: 3

Recommended General Education

- PHTO 116 – Digital Photography I Credits: 3

Total Credits: 21

Event Management Minor

Degree Requirements

- JOUR 230 – Beginning Media Writing Credits: 3
- PREL 255 – Introduction to Public Relations Credits: 3
- PREL 460 – Development Credits: 3
- COMM 454 – Topics in Communication:_____ Credits: 1–3 Org comm.
- COMM 475 – Professional Presentations Credits: 3

Choose one of the following:

- PREL 320 – Managing PR Campaigns and Special Events Credits: 3
- PREL 465 – Advanced Topics in Public Relations: Credits: 3 Special Events Planning

Recommended General Education

- FNCE 206 – Personal Finance Credits: 2–3
- COMM 320 – Interpersonal Communication Credits: 3

Total Credits: 21

Health Communication Minor

Degree Requirements

- JOUR 230 – Beginning Media Writing Credits: 3
- PREL 255 – Introduction to Public Relations Credits: 3
- PREL 465 – Advanced Topics in Public Relations: Credits: 3 Healthcare Communication
- COMM 405 – Persuasion Credits: 3

Electives—9

Choose a specific area of interest (e.g. Nutrition and Wellness)

- FDNT 448 – Nutrition and Wellness Credits: 3
- FDNT 460 – Seminar Credits: 1–2
- FTES 305 – Current Concepts and Applications in Physical Fitness Credits: 3
- FTES 410 – Issues in Exercise Studies Credits: 2
- HLED 445 – Consumer Health Credits: 2
- COMM 454 – Topics in Communication:_____ Credits: 1–3 Org comm.
- JOUR 440 – Magazine and Feature Writing Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3
- PREL 320 – Managing PR Campaigns and Special Events Credits: 3

Recommended General Education

- COMM 320 – Interpersonal Communication Credits: 3

Total Credits: 21

Image, Identity, and Popular Culture Minor

Degree Requirements

- COMM 425 – Media Literacy Credits: 3
- COMM 405 – Persuasion Credits: 3
- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Electives—6

Choose 6 Credits from the Following:

- COMM 450 – Communication in the Classroom Credits: 3
- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- Or courses chosen in consultation with advisor.

Recommended General Education

- COMM 320 – Interpersonal Communication Credits: 3
- PSYC 180 – Dealing with Your Mind Credits: 3

Total Credits: 21

International Relations and Peace Studies Minor

Degree Requirements

- COMM 435 – Crisis Communications Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- COMM 454 – Topics in Communication:_____ Credits: 1–3 Mediation, conflict resolution
- JOUR 465 – Advanced Topics in Journalism:_____ Credits: 3 Media Activism and Social Change
- PLSC 230 – International Relations Credits: 3
- PLSC 420 – Human Rights, Violations, and Reconciliations Credits: 3

Electives—3

- PLSC 225 – Comparative Politics Credits: 3
- PLSC 435 – Public Policy Credits: 3

Recommended General Education

- ANTH 200 – Cultural Anthropology Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3

Total Credits: 21

Journalism Minor

Degree Requirements

- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3
- JOUR 330 – Advanced Media Writing Credits: 3
- JOUR 375 – Photojournalism Credits: 3
- Choose 8 credits of electives from courses allowed in the major Journalism.

Total Credits: 20

Media Studies Minor

Degree Requirements

- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3
- COMM 425 – Media Literacy Credits: 3
- Choose electives in consultation with advisor to meet career goals.

Total Credits: 20

Photojournalism Minor

Degree Requirements

- JOUR 230 – Beginning Media Writing Credits: 3
- JOUR 375 – Photojournalism Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3
- JOUR 445 – Publication Production Credits: 3

- PHTO 200 – Advanced Photography I Credits: 3
Choose one of the following:
- PHTO 326 – Business of Photography Credits: 3
- BSAD 210 – Small Business Management Credits: 3

Electives—6

Chosen in consultation with advisor.

For Journalism majors, JOUR 230 and JOUR 375 are required.

Choose one of the following:

- PHTO 425 – Travel Photography Credits: 3
- PHTO 420 – Documentary Photography Credits: 1–6

Recommended General Education

- PHTO 116 – Digital Photography I Credits: 3

Total Credits: 21

Public Relations Minor

Degree Requirements

- JOUR 140 – Media, Culture and Society Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3
- PREL 255 – Introduction to Public Relations Credits: 3
- PREL 454 – Advanced Public Relations Credits: 3
- PREL 460 – Development Credits: 3
- COMM 405 – Persuasion Credits: 3
- Choose 8 credits of electives from major Public Relations.

Total Credits: 20

Publication Production Minor

Degree Requirements

- JOUR 230 – Beginning Media Writing Credits: 3
- JOUR 440 – Magazine and Feature Writing Credits: 3
- JOUR 445 – Publication Production Credits: 3
- JOUR 450 – Multimedia Journalism Credits: 3
- ART 130 – Introduction to Digital Media Credits: 3
- PHTO 175 – Digital Imaging Credits: 3

Electives—3

- Chosen in consultation with advisor.

Recommended General Education

- PHTO 116 – Digital Photography I Credits: 3

Total Credits: 21

Strategic Communication Minor

Degree Requirements

- JOUR 230 – Beginning Media Writing Credits: 3
- PREL 255 – Introduction to Public Relations Credits: 3
- PREL 460 – Development Credits: 3
- COMM 454 – Topics in Communication:_____ Credits: 1–3 Org Comm
- COMM 435 – Crisis Communications Credits: 3
- PLSC 420 – Human Rights, Violations, and Reconciliations Credits: 3

Electives—3

From emergency response/management courses chosen in consultation with advisor.

- JOUR 465 – Advanced Topics in Journalism: _____ Credits: 3 Adv Topics: Media Activism and Social Change

Total Credits: 21

Masters

Communication, MA

Master of Arts: Communication is designed for students who wish to develop advanced-level communication skills in combination with knowledge or skills in another area or areas.

Students may select either the interdisciplinary program or one of the emphasis areas. The procedures are explained in the department's Graduate Student Manual. The Graduate Student Manual is available online at: www.andrews.edu/comm/ under Graduate Students.

General Admission Requirements

Graduate Program admission requirements, academic information and graduation procedures are detailed in the School of Graduate Studies & Research section of this catalog.

Departmental Admission Requirements

This is a summary of the procedures that a student planning to enroll in the MA should note:

1. At the time of application for admission, students must:
 - a) have a bachelor's degree or its equivalent.
 - b) present a portfolio of current evidence of communication experience/background.
 - c) submit a *Statement of Purpose* which explains how the relevant disciplines will be integrated to meet his/her career and academic goals.
2. Upon acceptance and registration, the student in conjunction with the graduate advisor will develop a Plan of Study which is based on the student's *Statement of Purpose*.
3. In addition to the admission requirements of the School of Graduate Studies & Research, the student applying to the Department of Communication must:
 - a) have a minimum of 12 semester credits in communication and/or related areas.
 - b) have an overall GPA of 2.75
 - c) complete all deficiencies at the beginning of the program. These courses are in addition to the regular graduate-degree course work.
 - d) evidence a sufficient command of the English language to succeed in the proposed program. This requires a minimum TOEFL score of 600 average with no section score lower than 60 and a minimum 5.5 score on the TWE (Test of Written English) or a minimum MELAB average score of 90 with no section lower than 88. No test score may be older than one year.
 - e) evidence a sufficient command of the English language to succeed in the proposed program. This requires a minimum paper-based TOEFL score of 600 with no section score lower than 60 and a minimum 5.5 score on the TWE (Test of Written English), 93 on the Internet-based TOEFL, or a minimum MELAB average score of 90 with no section lower than 88. No test score may be older than one year with the exception of the ibt which is good for two years.

Progression

All graduate students need to understand that

- The GRE must be completed in order to register for the second semester courses.
- A student on regular status must, in consultation with the graduate advisor, identify members to serve on a supervisory committee. This committee is appointed before students register for their second semester in the program. It determines individual requirements for completion with reference to a student's Plan of Study.
- A 3.00 GPA per semester must be maintained.
- Application for Graduation must be completed before completing the Advancement to Candidacy.
- Upon completion of 50% of course work, Advancement to Candidacy is initiated by the student, who completes all the required forms.

Forms are submitted to the chair of the Department Graduate Program Subcommittee. On approval, recommendations are made to the Records Office and to the Dean of Graduate Studies. See General Academic Policies for further details on graduation procedures and degree conferral.

MA Degree Requirements

1. Comply with the standards outlined in the School of Graduate Studies & Research section of the bulletin.
2. Select either the interdisciplinary program or one of the emphases and complete a curriculum consisting of a minimum of 40 credits of course work approved by the supervising committee.
3. Pass COMM 670 – Comprehensive Examination over the areas selected for the degree.
4. Submit and successfully defend a portfolio.

Communication MA Program Requirements

- Interdisciplinary Program requirements
- Emphasis Program requirements

Communication MA Program Requirements

Communication, Interdisciplinary Program MA

Communication core—12

- COMM 515 – A Christian Perspective of Communication Theories Credits: 3
- COMM 520 – Communication Research Methodology Credits: 3 **or** an approved graduate level research class
- COMM 590 – Graduate Seminar in _____ Credits: 2–3
- COMM 651 – Communication Research Seminar I Credits: 1
- COMM 652 – Communication Research Seminar II Credits: 2
- COMM 670 – Comprehensive Examination Credits: 0

Two projects—4

Selected from:

- COMM 589 – Internship/Practicum in Communication Credits: 2–3
- COMM 599 – Production Project in Communication Credits: 2–3
- COMM 695 – Research Project in Communication Credits: 2–3

Note:

Students consult with their advisor and with their supervising committee to determine what combination of the above is most suited to their degree goals.

Additional communication courses—12

Selected with the approval of the supervising committee.

Additional courses in other area(s)—12–15

Selected with the approval of the other department(s) and the student's supervising committee.

Total MA degree credits required—40–43

Communication, Emphasis Programs MA

Communication core—12

- COMM 515 – A Christian Perspective of Communication Theories Credits: 3
- COMM 520 – Communication Research Methodology Credits: 3 **or** an approved graduate level research class
- COMM 648 – Communication Workshop Credits: 1–6
- COMM 651 – Communication Research Seminar I Credits: 1
- COMM 652 – Communication Research Seminar II Credits: 2

- COMM 670 – Comprehensive Examination Credits: 0

Two Projects—4

Students must complete two of

- COMM 589 – Internship/Practicum in Communication Credits: 2–3
- COMM 599 – Production Project in Communication Credits: 2–3
- COMM 695 – Research Project in Communication Credits: 2–3

Communication Electives—12

Selected with the approval of the supervising committee.

Emphasis—12

Advancement and Fundraising Emphasis

Core:

- PREL 510 – Advancement and Communication Credits: 2
- BSAD 500 – Survey of Management Credits: 2
- plus 8 credits of electives selected with approval of the supervising committee.

International Community & Communication Emphasis

Core:

- COMM 540 – Communication in Development Practice Credits: 2–3
- COMM 590 – Graduate Seminar in _____ Credits: 2–3 International Communication
- plus 8 credits of electives selected with approval of the supervising committee.

Communication Management and Strategy Emphasis

Core:

- COMM 590 – Graduate Seminar in _____ Credits: 2–3 Grad Seminar: Leadership Communication
- COMM 590 – Graduate Seminar in _____ Grad Seminar: Organizational Communication
- plus 8 credits of electives selected with approval of the supervising committee.

Media Studies Emphasis

Electives in Public Relations, Journalism New Media selected with approval of the supervising committee.

Total MA degree credits required—40

Certificates

Communication Graduate Certificate

The Graduate Certificate Program in Communication is a focused group of Andrews University courses in the field of communication. After completing the program, a student will have general communication skills for work in business, communication industries and the Church setting, both nationally and internationally. These skills include planning and preparing promotional materials, web content, speeches, presentations and visual media products.

A portfolio of current evidence related to experience within related areas of communication must be submitted before completion of the Graduate Certificate Program. A student who successfully completes the 12 credits will have met the requirements of the Graduate Certificate Program which is noted on the student's transcript.

Courses taken in the Graduate Certificate Program may be applied by petition to a master's program in Communication.

Admission and Time Limit

Graduate admission processes and standards of the Graduate School apply. The Graduate Record Exam (GRE) is not required. The time limit for completion of the certificate program should not exceed five years from the first enrollment.

Prerequisite

Bachelor's degree

Delivery System

Courses may be delivered as summer courses, as intensives on a three-year rotation basis and pre-campus and post-campus work may be required. The courses may be offered on a regular on-campus basis during the semester.

Curriculum

Core—5

- COMM 648 – Communication Workshop Credits: 1–6 Competencies in speaking 1 Credit required
- writing 1 Credit required
- visual communication 1 Credit required
- COMM 554 – Topics in _____ Credits: 1–3 Communicating Mission 2 Credits required

Electives—7

Choose from:

- PREL 510 – Advancement and Communication Credits: 2 Advancement and Communication 2 Credits required
- COMM 554 – Topics in _____ Credits: 1–3 International Communication 1–2 Credits required
- COMM 590 – Graduate Seminar in _____ Credits: 2–3 Organizational Communication 2 Credits required
- COMM 554 – Topics in _____ Media and Communication 1–2 Credits required
- other courses selected in consultation with the advisor to meet career goals.

Total Credits for Graduate Certificate—12

Communication

COMM 104 – Communication Skills

Credits: 3

Study of the human communication process—including a multicultural perspective and the importance of diversity—focusing on interactions with oneself, with one other person, with a small group, and within public-speaking situations. Transfer students, juniors, and seniors meet the General Education requirement by taking one of the following: COMM320, 436, or 456. Communication majors who transfer in take COMM 320, COMM 436 or COMM 456. \$ – Course or lab fee **Delivery:** Interactive online option available **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 104V – Communication Skills

Credits: 3

Study of the human communication process—including a multicultural perspective and the importance of diversity—focusing on interactions with oneself, with one other person, with a small group, and within public-speaking situations. Transfer students, juniors, and seniors meet the General Education requirement by taking one of the following: COMM320, 436, or 456. Communication majors who transfer in take COMM 320, COMM 436 or COMM 456. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

COMM 215 – Introduction to Communication Theory

Credits: 4

A study of classical and modern theories of rhetoric, interpersonal communication, language, and the role of communication in establishing social reality and a sample research project. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 230 – Communication Practices

Credits: 1

A foundational course which introduces students to the study of the human communication process and career opportunities in the field of communication. Majors and minors are advised to complete this course. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 280 – Voice and Diction

Credits: 3

Through vocal analysis and studying the production and differentiation of sound units in the English language, students identify and develop vocal strengths and identify and remedy vocal problems. Students learn to use their voices to achieve maximum understanding and pleasure. Includes theory, practice exercises, public performances, and an introduction to the International Phonetic Alphabet. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 290 – Practicum

Credits: 1–3

Supervised work experience in journalism, public relations, or another aspect of communication. A minimum of 75 clock hours of work experience is required. Obtain procedures and guidelines from the department. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 3 credits **College Code:** CAS

COMM 320 – Interpersonal Communication

Credits: 3

Emphasis is placed on interpersonal skills for the workplace. Students examine components of interpersonal communication such as listening, perception, managing conflict, etc., then apply specific strategies to build relationships. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 389 – Internship in Communication

Credits: 1–3

Students work full time at communication enterprises. At least 90 clock hours per credit of work experience are required. Obtain procedures and guidelines from the department. \$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 3 credits **College Code:** CAS

COMM 405 – Persuasion

Credits: 3

The analysis of persuasive appeals from the point of view of a critical consumer plus practical experience, oral and written, in ethically persuading others. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** COMM 104 or COMM 230 or permission of instructor. **College Code:** CAS

COMM 425 – Media Literacy

Credits: 3

A critical and experiential approach to information conveyed through the mass media. It includes an introduction to myth and meaning and the importance of understanding prevailing ideologies in the context of a Christian world view and a sense of identity. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

COMM 432 – Research Methods in Communication

Credits: 3

An introduction to methods including textual analysis, qualitative, quantitative, ethnomethodology. Specific emphasis on methods in Public Relations, Journalism and Media Studies. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

COMM 435 – Crisis Communications

Credits: 3

Understanding communication during crisis conditions. Planning, preventing and anticipating Public Relations emergencies. Preparing a crisis communication's plan including internal and external consulting factors. Implementing Public Relations activities including understanding and handling the media and the press, explaining technical information, communicating about risks and responding to warnings. Notification priorities and protocols. Developing information centers and methods and tools for disseminating information during emergencies. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

COMM 436 – Intercultural Communication

Credits: 3

Students examine the relationship between culture and communication and the ways culture influences values and perceptions. Discussion and activities help students develop and apply analytic and communication skills which enable them to interact with cultural sensitivity and communicate more effectively in intercultural, interethnic, and cross–gender contexts. Particularly useful for students in business, behavioral sciences, education, and theology. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 445 – Family Communication

Credits: 3

A study of the family from a communication perspective (odd years). \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

COMM 446 – Gender Communication

Credits: 3

The study of the interactive relationships between gender and communication as experienced in various contexts such as personal relationships, school and work settings (even years). \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

COMM 450 – Communication in the Classroom

Credits: 3

The study and development of effective communication skills within the context of the classroom. Focus is on interactive learning where the student rather than the instructor is central. Open only to upper division and graduate students. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 454 – Topics in Communication:_____

Credits: 1–3

Topics of current significance. Credit to be announced with topic in advance. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable with different topics **College Code:** CAS

COMM 456 – Group Dynamics and Leadership

Credits: 3

An experiential study of groups in process within organizations for the purpose of problem–solving and team building. Students work in teams to plan and complete a service project during the semester. \$ – Course or lab fee **Course Attribute:** Service course **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 465 – Topics in Communication Arts:_____

Credits: 3

Study of selected topics in Communication Arts. Topic to be announced in advance. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Varies according to topic. • Drama • Interpretive Reading • British Dramatic Arts **Repeatable:** Repeatable up to 9 credits with different topics. **College Code:** CAS

COMM 475 – Professional Presentations

Credits: 3

Grounded in rhetorical theory and research, students conduct advanced research on speech topics of various situations and modes towards a professional and engaging performance of public communication. Speeches must be solidly supported and logically reasoned. Principles of eloquence, presentation design, and ethics characterize the articulate delivery. Focus is practical application of argumentation and debate skills to develop critical thinking for reasoned decision–making and problem–solving. Particularly useful for students in fields such as pre–law and business. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** COMM 104. **Offering:** Alternate years **College Code:** CAS

COMM 478 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable **College Code:** CAS

COMM 480 – Communicating for Community

Credits: 3

A practical capstone class which helps students integrate and synthesize material acquired in their major. Practical applications are made to specific communities of practice. Students are required to complete their portfolios including mission statements and samples of performance in their major, and give evidence of an organized job search. Preparation for internship. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 495 – Independent Study/Readings/Research

Credits: 1–4

Topics chosen in consultation with an instructor. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Requires prior approval from instructor. **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

COMM 515 – A Christian Perspective of Communication Theories

Credits: 3

The study of communication theories from a biblical worldview approach. Various perspectives to be evaluated in this context are covering laws, human action, and systems perspectives. Students engage in seminar presentations and classroom discussions of how the theories can be applied in practical ways with an emphasis on faith and spirituality. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

COMM 520 – Communication Research Methodology

Credits: 3

Consideration of basic research principles and methodologies with emphasis on constructing appropriate research designs and choosing appropriate methods. Students usually conduct a class research project. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** COMM515 **College Code:** CAS

COMM 535 – Crisis Communications

Credits: 2

Understanding communication during crisis conditions. Planning, preventing and anticipating Public Relations emergencies. Preparing a crisis communication’s plan including internal and external consulting factors. Implementing Public Relations activities including understanding and handling the media and the press, explaining technical information, communicating about risks and responding to warnings. Notification priorities and protocols. Developing information centers and methods and tools for disseminating information during emergencies. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

COMM 536 – Issues in Intercultural Communication

Credits: 2–3

Examination of intercultural communication issues with specific applications to student’s chosen fields of enquiry or employment. Students explore critical issues influencing the effectiveness of their interaction with individuals from varied cultures in specific organizational and societal contexts. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

COMM 540 – Communication in Development Practice

Credits: 2–3

Students examine the relationship between culture and communication. Apply analytic and communication skills which enable effective communication in various communities. Develop skills in persuasion and explore sensitivity to diversity issues. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

COMM 554 – Topics in _____

Credits: 1–3

Study of selected communication topics of current significance. Topics to be announced in advance. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

COMM 589 – Internship/Practicum in Communication

Credits: 2–3

Students apply their academic preparation at a full–time professional communication–related job. At least 400 clock hours of work experience are required. Obtain procedures and guidelines from the department. Registration for this course indicates full–time status. \$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

COMM 590 – Graduate Seminar in _____

Credits: 2–3

Projects, reports, and discussions. Seminars are offered in various subjects such as Conflict Management, Prejudice Communication and Forgiveness, Religious Journalism, Contextualized Communication, Communication Paradigms, and Teambuilding. Topic announced in advance. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable with different topics **College Code:** CAS

COMM 599 – Production Project in Communication

Credits: 2–3

Students produce some major communication effort, such as creating and offering a training workshop, designing a public–relations campaign, editing a department magazine, directing a play, or offering a one–person show. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Prerequisite(s):** Completed production project proposal. S/U grade. **Repeatable:** Repeatable **College Code:** CAS

COMM 640 – Project Continuation

Credits: 0

Students may register for this title while clearing deferred grade (DG) and/or incomplete (I) classes with advisor approval only. Registration for this title indicates full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

COMM 648 – Communication Workshop

Credits: 1–6

Intensive study on selected practical topics including competencies in speaking, writing and visual communication. Offered on a periodic basis with topic announced in class schedule. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable with different topics **College Code:** CAS

COMM 651 – Communication Research Seminar I

Credits: 1

A seminar, based on the skills acquired/learned in COMM 520, assists students to explore studies relevant to student’s research/production project. Emphasis is given to understanding and critiquing research studies and writing the literature review chapter for student’s research/production project(s). **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

COMM 652 – Communication Research Seminar II

Credits: 2

This research seminar provides an opportunity to identify and develop the appropriate research method(s) including the theoretical framework for student’s research/production projects. This seminar requires students to refine and present their research proposal for their research/production project. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** COMM 515, COMM 520, COMM 651. **College Code:** CAS

COMM 655 – Program Continuation

Credits: 0

Students may register for this non–credit continuation course to maintain active status. For additional information on active status, please refer to p. 56 in the bulletin. Registration does not indicate full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

COMM 660 – Thesis Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

COMM 670 – Comprehensive Examination

Credits: 0

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

COMM 690 – Independent Study in Communication

Credits: 1–3

Individualized reading or research in a specified area under the guidance of an instructor; admission by consent of Area Coordinator. \$ – Course or lab fee **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

COMM 695 – Research Project in Communication

Credits: 2–3

Independent work on final research project(s). **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** COMM 520 and approved project proposal. **Repeatable:** Repeatable up to 6 credits with Graduate Committee permission **College Code:** CAS

COMM 699 – Master’s Thesis

Credits: 2

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **College Code:** CAS

Journalism

JOUR 140 – Media, Culture and Society

Credits: 3

A study of how media affects our popular culture and to critically assess the role of media in our lives. Beginning with the invention of mass communication and using culture as a thematic approach, students study the broad and overlapping media. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 230 – Beginning Media Writing

Credits: 3

Aimed at all communication majors, media writing introduces students to writing targeted communication in a journalistic style. They learn the basics of journalistic writing for various media (i.e., newspapers, radio and television), public relations press releases, basic features and editorials, the importance of audience for any written communication as well as the values of timeliness, objectivity, and fairness critical to any communication career. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Ability in word–processing. **College Code:** CAS

JOUR 330 – Advanced Media Writing

Credits: 3

Continues on the foundation of Beginning Media Writing, helping students to develop a deeper understanding of journalism and its place in society. Students learn how to cover a journalistic “beat”, develop sources, and how to research in–depth stories. Students also practice the art of the interview and learn the rights and obligations of reporters and communicators in any media. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** JOUR230. **College Code:** CAS

JOUR 375 – Photojournalism

Credits: 3

Practice in the composition of good news pictures and in producing the picture story. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** JOUR230, PHTO115. **Offering:** Alternate years **College Code:** CAS

JOUR 389 – Internship in Journalism

Credits: 1–3

Students work full time at journalistic enterprises. At least 90 clock hours per credit of work experience are required. Obtain procedures and guidelines from the department. \$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 3 credits **College Code:** CAS

JOUR 405 – Technology for Journalism

Credits: 3

An introduction to changing technology by identifying, learning and applying skills relevant to journalism. Students will be introduced to established and emerging technology applicable to gather and disseminate news on various platforms. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 436 – Electronic News Magazine Production

Credits: 3

Students will receive individual coaching, as they complete a 20–30 minute work of video storytelling designed to be the capstone of their studies in electronic news. Emphasis will be placed on production techniques, reporting and storytelling. The expectation is that work produced by students in this course will be of broadcast quality for media such as television, the Internet, or at a film festival. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 440 – Magazine and Feature Writing

Credits: 3

This course emphasizes developing original ideas and content for the specific, niche audiences served by magazines and focuses on how to think and write for magazines and newspapers. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 441 – Intro to News Production

Credits: 3

An introduction to basic news production. Topics will include story structure, writing to picture, interview techniques, shooting, editing, pitching your stories and yourself to media outlets. Lab experience is expected. Course culminates in the production of a short hard news story. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 442 – Advanced News Production

Credits: 3

Students will write, shoot, report, produce and anchor news stories. Students will rotate through different jobs, which will expose them to newsroom and studio operations. Editorial decision–making and production management is emphasized. Students will concentrate on producing hard news and feature reports. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 445 – Publication Production

Credits: 3

The theory and practice of planning and producing of any publication, be it newspaper, magazine or newsletter. Students will learn the value of careful editing and basic layout from an editor’s perspective. Practice in editing copy, writing headlines, composing picture captions, planning layout and designing pages, as well as tips and tricks on project production, will be covered. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** JOUR 230. **Offering:** Alternate years **College Code:** CAS

JOUR 450 – Multimedia Journalism

Credits: 3

In the context of media convergence, this course embraces storytelling for delivery across various media platforms. Hands–on production focuses on news content for print, broadcast (TV and radio), new media (Internet, blogs, vodcasts, podcasts and interactive elements). \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 455 – Media Law and Ethics

Credits: 3

Case studies of court decisions affecting the mass media in the United States and the place of the ethical journalist in society. Consideration of the development of freedom, censorship, libel, privacy, obscenity laws, and the relationship between the press and the courts and freedom of information, and broadcast regulation. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 460 – News Editing for Electronic Media

Credits: 3

Using news industry’s editing standards, this course will assist student to develop techniques to edit news for the electronic media consistent with broadcast quality. This course will emphasize the roles and responsibilities of an editor including deadlines and ethics. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

JOUR 465 – Advanced Topics in Journalism:_____

Credits: 3

Study of selected topics in Journalism. Topic to be announced in advance. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 15 credits with different topics **College Code:** CAS

JOUR 496 – Portfolio

Credits: 1–3

This course focuses on the student’s portfolios, relevant professional standards and expectations of the job market. Existing projects are refined and new projects are identified to complete the requirements. Portfolios are presented and defended. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

Public Relations

PREL 255 – Introduction to Public Relations

Credits: 3

Basic concepts in public relations, publics, public opinions, attitudes, two-way communications, and evaluation of public relations effectiveness. Basic literature of the field is examined. Basic principles for production of news releases, public service announcements, and other materials are covered. \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W) **College Code:** CAS

PREL 320 – Managing PR Campaigns and Special Events

Credits: 3

Focuses on preparation for Public Relations careers, media relations, ethics, and industry issues and trends, including literature in the field and professional organizations. Students focus on writing projects, including press kits, proposals, newsletters, brochures, fundraising, speeches, public service announcements, copywriting and create documents for portfolios. \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W) **Prerequisite(s):** PREL 255 and JOUR 230 or permission of instructor. **College Code:** CAS

PREL 389 – Internship in Public Relations

Credits: 1–3

Students intern at public relations or a related field. At least 90 clock hours per credit of work experience are required. Obtain procedures and guidelines from the department. \$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG)

Repeatable: Repeatable up to 3 credits **College Code:** CAS

PREL 454 – Advanced Public Relations

Credits: 3

Examines the characteristics of successful public relations campaigns. Emphasis given to public relations planning and evaluating, as well as to advanced techniques in news publicity, controlled media publicity, and media relations. Professional practitioners are frequent guest lecturers. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students

Grade Mode: Normal (A–F,I,W) **Prerequisite(s):** PREL 255. **College Code:** CAS

PREL 460 – Development

Credits: 3

Provides student with an understanding of the facets of development intrinsic to a non-profit organization. Students work on team projects in local agencies and organization. They report to the class, write reflection papers, and give a final oral presentation about their experiences. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PREL 465 – Advanced Topics in Public Relations:

Credits: 3

Study of selected topics in Public Relations. Topic to be announced in advance. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students

Grade Mode: Normal (A–F,I,W) **Prerequisite(s):** PREL 255. • Crisis/Issues Management • Critical Issues in Public Relations • Case Studies in Public Relations • Health Care Communication • Special Events Planning

• Public Relations Research Techniques **Repeatable:** Repeatable up to 9 credits with different topics **College Code:** CAS

PREL 510 – Advancement and Communication

Credits: 2

Developing communication skills necessary to the non-profit arena, including working with volunteers, promoting and positioning various service organizations. Communication with relevant publics. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

Engineering & Computer Science

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Stephen Thorman

Roy Villafane

William Wolfer

Mission

The Engineering and Computer Science department aspires to be a place of choice for engineering and computer science education where dedicated students and faculty grow together to reach their God–given potential for service to society and the church.

Faculty and students in the Engineering and Computer Science Department will:

Seek Knowledge by:

- Exploring current knowledge in engineering and computing from a Christian viewpoint, within the broader context of the liberal arts.
- Creating a nurturing environment for a committed lifetime of intellectual discovery, problem–solving, and innovation.
- Enhancing learning through research and scholarship.
- Preparing students to join their chosen profession or attend graduate school.
- Engaging industry and professional stakeholders in the planning and assessing of our curriculum.

Affirm Faith by:

- Acknowledging the leadership of God in their lives.
- Acting with personal and moral integrity.
- Serving humanity in a complex, technological, global society.

Change the World by:

- Applying knowledge and skills to the care of their God–given home.
- Solving contemporary societal problems.
- Providing selfless service to others.

Bachelors

Computing, Computer Science Emphasis BS

Computer Science focuses on a study of computing as well as on its role in an application area. Areas of interest include artificial intelligence, compilers, computer architectures, computer graphics, computer networks, operating systems, program development, and analytical theory. A degree in computing with the Computer Science emphasis prepares students for graduate study, employment in computer systems/networks, administration/ development, software development/maintenance, and for careers in education.

Major Requirements – 40

Common Core – 22

- CPTR 151 – Computer Science I Credits: 4
- CPTR 152 – Computer Science II Credits: 3
- CPTR 276 – Data Structures and Algorithms Credits: 3
- CPTR 440 – Operating Systems Credits: 3
- CPTR 460 – Software Engineering Credits: 3
- CPTR 491 – Computing Capstone I Credits: 3
- CPTR 492 – Computing Capstone II Credits: 3

Required courses—9

- CPTR 425 – Programming Languages Credits: 3
- CPTR 437 – Formal Theory of Computation Credits: 3
- CPTR 467 – Database Concepts and Theory Credits: 3

Major electives—9

Chosen from CPTR courses in consultation with an advisor. A minimum of 9 upper division credits required.

Cognate requirements—26–28

- MATH 191 – Calculus I Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 355 – Discrete Mathematics Credits: 3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3
- ENGR 385 – Microprocessor Systems Credits: 4

Choose one of the following sets:

- BIOL 165 – Foundations of Biology Credits: 5 or 4 *
- BIOL 166 – Foundations of Biology Credits: 5 or 4 *
- **or**
- CHEM 131 – General Chemistry I Credits: 4 *
- CHEM 132 – General Chemistry II Credits: 4 *
- **or**
- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4 *
- **or**
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4 *
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4 *
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1 *
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1 *

*These courses may apply toward the general education life/physical science requirement.

Program Requirements

Progression Requirements:

No grade lower than C– may be counted toward any degree requirement. An Engineering or Computing course may be repeated only once. Students may repeat only two Engineering or Computing courses. Students will be asked to withdraw from the program if they fail two Engineering or Computing courses in the same semester. Readmission will be considered on an individual basis. Transfer credits need to be submitted a minimum of six weeks prior to beginning of classes. Transfer students will be considered on an individual basis. Courses 200–level and above are restricted to admitted majors/minors only.

The major field examination in Computing is part of the senior exit test.

Computer Policy

The computer is a tool that is integral to the success of the computer scientist in her/his professional development. All students in the Computing program are required to have a computer and software meeting the program guidelines. The policy is updated yearly and will be in effect at the beginning of the Fall semester. It includes changes to reflect continual changes in technology. Computer purchases should be made such that the computer is ready for use on the first day of the semester.

Computing, Software Systems Emphasis BS

Software Systems is focusing on the development and maintenance of software in an application area. A minor in an application area is included as part of the degree. Typical minors might include one of the sciences, behavioral science, or business. Supervised “real–world” projects are a requirement for this degree. A degree in Computing with the Software Systems emphasis prepares students for employment in developing and maintaining commercial applications and for graduate studies in applied computing such as software engineering.

Major Requirements – 40

Common Core – 22

- CPTR 151 – Computer Science I Credits: 4
- CPTR 152 – Computer Science II Credits: 3
- CPTR 276 – Data Structures and Algorithms Credits: 3
- CPTR 440 – Operating Systems Credits: 3
- CPTR 460 – Software Engineering Credits: 3
- CPTR 491 – Computing Capstone I Credits: 3
- CPTR 492 – Computing Capstone II Credits: 3

Required courses—9

- CPTR 310 – Database Application Programming Credits: 3
- CPTR 427 – Object-Oriented Design and Programming Credits: 3
- CPTR 450 – Network Computing and Architecture Credits: 3

Major electives—9

Chosen from CPTR courses in consultation with an advisor. A minimum of 9 upper division credits required.

Cognate requirements—30–32

- MATH 191 – Calculus I Credits: 4
- MATH 355 – Discrete Mathematics Credits: 3
- STAT 285 – Elementary Statistics Credits: 3
- Minor in an advisor-approved application area (20–22)

Program Requirements

Progression Requirements:

No grade lower than C– may be counted toward any degree requirement. An Engineering or Computing course may be repeated only once. Students may repeat only two Engineering or Computing courses. Students will be asked to withdraw from the program if they fail two Engineering or Computing courses in the same semester. Readmission will be considered on an individual basis. Transfer credits need to be submitted a minimum of six weeks prior to beginning of classes. Transfer students will be considered on an individual basis. Courses 200-level and above are restricted to admitted majors/minors only.

The major field examination in Computing is part of the senior exit test.

Computer Policy

The computer is a tool that is integral to the success of the computer scientist in her/his professional development. All students in the Computing program are required to have a computer and software meeting the program guidelines. The policy is updated yearly and will be in effect at the beginning of the Fall semester. It includes changes to reflect continual changes in technology. Computer purchases should be made such that the computer is ready for use on the first day of the semester.

Engineering, Electrical and Computer Engineering Emphasis BS

Engineering builds on a strong traditional mathematics, science, and engineering core. The Electrical and Computer Engineering emphasis focuses on the areas of digital systems, communication systems, and computer controlled instrumentation and computer simulation.

The mathematics courses listed as cognates for the Engineering degree satisfy the requirements for a minor in mathematics. A second major in mathematics requires 6 additional credits in mathematics, and a second major in physics requires 14–17 additional credits in physics. See the Mathematics and Physics department listings for details.

Major Requirements – 66

Common Core – 30

- ENGR 120 – Introduction to Engineering & Design Credits: 2
- ENGR 125 – Engineering Graphics Credits: 3
- ENGR 180 – Materials Science Credits: 4
- ENGR 185 – Engineering Statics Credits: 3

- ENGR 225 – Circuit Analysis Credits: 3
- ENGR 275 – Electronics I Credits: 3
- ENGR 285 – Engineering Dynamics Credits: 3
- ENGR 310 – Linear Systems Analysis Credits: 3
- ENGR 450 – Engineering Economy Credits: 2
- ENGR 491 – Review of Engineering Design Credits: 1
- ENGR 492 – Senior Design Project Credits: 3

Required courses—31

- CPTR 151 – Computer Science I Credits: 4
- CPTR 152 – Computer Science II Credits: 3
- CPTR 465 – Computer Architecture Credits: 3
- ENGR 325 – Electronics II Credits: 4
- ENGR 335 – Logic Circuit Design Credits: 3
- ENGR 385 – Microprocessor Systems Credits: 4
- ENGR 415 – Virtual Instrumentation Credits: 3
- ENGR 435 – Electromagnetic Fields Credits: 3
- ENGR 455 – Communication Systems Credits: 4

Major electives—5

Chosen from upper division ENGR and CPTR courses in consultation with an advisor.

Cognates – 35

- MATH 191 – Calculus I Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3
- CHEM 131 – General Chemistry I Credits: 4
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1
- STAT 340 – Probability Theory with Statistical Applications Credits: 3

Professional Program

Admission Requirements:

Transfer students will be considered on an individual basis. Engineering foundation courses—

- MATH 191 – Calculus I Credits: 4
- ENGR 120 – Introduction to Engineering & Design Credits: 2
- ENGR 125 – Engineering Graphics Credits: 3
- ENGR 180 – Materials Science Credits: 4
- ENGR 185 – Engineering Statics Credits: 3
- CHEM 131 – General Chemistry I Credits: 4

Progression Requirements:

No grade lower than C– may be counted toward any degree requirement. An Engineering or Computing course may be repeated only once. Students may repeat only two Engineering or Computing courses. Students will be asked to withdraw from the program if they fail **two** Engineering or Computing courses in the same semester. Readmission will be considered on an individual basis. Transfer credits need to be submitted a minimum of **six** weeks prior to beginning of classes. Transfer students will be considered on an individual basis. Courses 200-level and above are restricted to admitted majors/minors only.

General Education Requirements

See professional program requirements and note the following **specific** requirements:

Religion:

- RELT 100 – God and Human Life Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3
- and **two more courses** from RELB, RELG, RELP, RELT

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 220 – Technical Writing Credits: 3
- COMM 104 – Communication Skills Credits: 3

History:

- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

- professional degree requirements

Life/Physical Sciences:

- CHEM 131 – General Chemistry I Credits: 4

Mathematics:

- MATH 191 – Calculus I Credits: 4

Computer Literacy:

Computer courses within required courses for the emphasis

Service:

- BHSC 100 – Philosophy of Service Credits: 2 **or**
- ENGR 485 – Community Project in Engineering Credits: 2–6

Social Sciences:

Take **one** course from the following:

- ANTH 200 – Cultural Anthropology Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- PLSC 104 – American Government Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- and one additional course from personal fitness, outdoor skills or team activity

Engineering, Mechanical Engineering Emphasis BS

Engineering builds on a strong traditional mathematics, science, and engineering core. The Mechanical Engineering emphasis focuses on mechanical design and the electromechanical elements of smart machines.

The mathematics courses listed as cognates for the Engineering degree satisfy the requirements for a minor in mathematics. A second major in mathematics requires 6 additional credits in mathematics, and a second major in physics requires 14–17 additional credits in physics. See the Mathematics and Physics department listings for details.

Major Requirements –66

Common Core – 30

- ENGR 120 – Introduction to Engineering & Design Credits: 2
- ENGR 125 – Engineering Graphics Credits: 3
- ENGR 180 – Materials Science Credits: 4
- ENGR 185 – Engineering Statics Credits: 3
- ENGR 225 – Circuit Analysis Credits: 3
- ENGR 275 – Electronics I Credits: 3
- ENGR 285 – Engineering Dynamics Credits: 3
- ENGR 310 – Linear Systems Analysis Credits: 3
- ENGR 450 – Engineering Economy Credits: 2
- ENGR 491 – Review of Engineering Design Credits: 1
- ENGR 492 – Senior Design Project Credits: 3

Required courses—30

- CPTR 125 – Introduction to Computer Programming Credits: 3
- ENGR 320 – Manufacturing Processes Credits: 3
- ENGR 330 – Thermodynamics Credits: 3
- ENGR 340 – Mechanics of Materials Credits: 3
- ENGR 350 – Sensors and Actuators Credits: 3
- ENGR 360 – Fluid Dynamics Credits: 3
- ENGR 390 – Engineering Measurements Lab Credits: 2
- ENGR 410 – Feedback Control Systems Credits: 3
- ENGR 420 – Machine Design Credits: 3
- ENGR 440 – Heat and Mass Transfer Credits: 3

Major electives—6

Chosen from upper division ENGR courses in consultation with an advisor.

Cognates – 35

- MATH 191 – Calculus I Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3
- CHEM 131 – General Chemistry I Credits: 4
- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1

Professional Program

Admission Requirements:

Transfer students will be considered on an individual basis.

Engineering foundation courses—

- MATH 191 – Calculus I Credits: 4
- ENGR 120 – Introduction to Engineering & Design Credits: 2
- ENGR 125 – Engineering Graphics Credits: 3
- ENGR 180 – Materials Science Credits: 4
- ENGR 185 – Engineering Statics Credits: 3
- CHEM 131 – General Chemistry I Credits: 4

Progression Requirements:

No grade lower than C– may be counted toward any degree requirement. An Engineering or Computing course may be repeated only once. Students may repeat only two Engineering or Computing courses. Students will be asked to withdraw from the program if they fail **two** Engineering or Computing courses in the same semester. Readmission will be considered on an individual basis. Transfer credits need to be submitted a minimum of **six** weeks prior to beginning of classes. Transfer students will be considered on an individual basis. Courses 200–level and above are restricted to admitted majors/minors only.

General Education Requirements

See professional program requirements and note the following **specific** requirements:

Religion:

- RELT 100 – God and Human Life Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3
- and **two more courses** from RELB, RELG, RELP, RELT

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 220 – Technical Writing Credits: 3
- COMM 104 – Communication Skills Credits: 3

History:

- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

professional degree requirements

Life/Physical Sciences:

- CHEM 131 – General Chemistry I Credits: 4

Mathematics:

- MATH 191 – Calculus I Credits: 4

Computer Literacy:

Computer courses within required courses for the emphasis

Service:

- BHSC 100 – Philosophy of Service Credits: 2 **or**
- ENGR 485 – Community Project in Engineering Credits: 2–6

Social Sciences:

take **one** course from the following:

- ANTH 200 – Cultural Anthropology Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- PLSC 104 – American Government Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- and one additional course from personal fitness, outdoor skills or team activity

Undergraduate Minors

Computing Minor

Required courses—10

- CPTR 151 – Computer Science I Credits: 4
- CPTR 152 – Computer Science II Credits: 3
- CPTR 276 – Data Structures and Algorithms Credits: 3

Minor electives—10

Chosen from CPTR courses in consultation with an advisor.

Note:

No course grade below a C– may apply to a major or minor in Computing.

Total Credits: 20

Engineering Minor

Required courses—11

- ENGR 120 – Introduction to Engineering & Design Credits: 2
- ENGR 125 – Engineering Graphics Credits: 3
- ENGR 185 – Engineering Statics Credits: 3
- ENGR 225 – Circuit Analysis Credits: 3

Minor Electives—9

Chosen from ENGR courses in consultation with an engineering advisor.

Cognates:

- MATH 191 – Calculus I Credits: 4
- MATH 192 – Calculus II Credits: 4

Total Credits: 20

Computing & Software Engineering

CPTR 125 – Introduction to Computer Programming

Credits: 3

Programming in a selected language. May be repeated for a total of three unique languages. Satisfies general education requirements for computing majors. Only 3 credits of CPTR125 may apply toward a computing major or minor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 9 credits **Offering:** Spring **College Code:** CAS

CPTR 151 – Computer Science I

Credits: 4

An introduction to programming methodology, problem-solving, algorithm development, control structures, arrays, program style, design correctness and documentation techniques, as well as a brief overview of computer systems and computer history. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

CPTR 152 – Computer Science II

Credits: 3

A continuation of CPTR151 examines program specifications, design, coding, correctness, and style with additional coverage of pointers and arrays, and an in-depth study of recursion and data structures. Includes files, lists, stacks, queues, trees, graphs, and an overview of computer ethics. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR151. **Offering:** Spring **College Code:** CAS

CPTR 276 – Data Structures and Algorithms

Credits: 3

A study of techniques for the design and analysis of algorithms using appropriate data structures covered in CPTR152. Topics include: asymptotic complexity bounds, graph and tree algorithms, fundamental algorithmic strategies (such as greedy, divide-and-conquer, backtracking, branch-and-bound, heuristics, pattern matching and string/text algorithms), numerical approximation and dynamic programming. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR152. **Offering:** Fall **College Code:** CAS

CPTR 295 – Directed Computer Language Study

Credits: 1–3

Directed study of computer language in consultation with the instructor. Normally, the language is not included in other courses taught by the department. A programming project may be required. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** CPTR151 or equivalent. **Repeatable:** Repeatable **College Code:** CAS

CPTR 310 – Database Application Programming

Credits: 3

A study of basic database principles and web applications using technologies such as PHP, MySQL, Three Tier Architectures, scripting languages and data manipulation. Manipulating databases using SQL. Sessions, authentication and security. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR151. **Offering:** Fall **College Code:** CAS

CPTR 416 – Internet Technologies

Credits: 3

A study of current technologies and their effects, including web server software, e-commerce, various scripting languages, human-computer interaction, perception, and related issues. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR152. **Offering:** Fall, even years **College Code:** CAS

CPTR 425 – Programming Languages

Credits: 3

Survey of current programming languages, including structure, runtime systems, the specification of syntax, and semantics. Definition of syntax for formal languages with emphasis on context-free languages. Techniques for scanning and parsing programming languages. Automated grammar analysis parsers. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR276. **Offering:** Spring **College Code:** CAS

CPTR 427 – Object-Oriented Design and Programming

Credits: 3

Emphasizes the study of object-oriented analysis and design methodologies and the application of these to the development of advanced software. Includes survey of object-oriented programming languages and environments. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Spring **College Code:** CAS

CPTR 436 – Numerical Methods and Analysis

Credits: 3

A study of common numerical techniques applicable on a computer. Includes interpolation, extrapolation, approximation techniques, numerical methods for linear problems, root finding, function fitting, numerical integration, location of extremes, efficiency of numerical algorithms, and minimization of computational error. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 276 and MATH 215.

Offering: Spring, odd years **College Code:** CAS

CPTR 437 – Formal Theory of Computation

Credits: 3

Includes post productions, Turing machines, and recursive functions. Recursive and recursively enumerable sets. Undecidability results of computation. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152 and MATH 355. **Offering:** Fall **College Code:** CAS

CPTR 440 – Operating Systems

Credits: 3

Process management, including asynchronous concurrent processes and deadlock, virtual storage management and job and process scheduling, multiprocessing, disk scheduling and file and database systems, performance and security. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 276. **Offering:** Fall **College Code:** CAS

CPTR 450 – Network Computing and Architecture

Credits: 3

Concepts applicable to constructing a computer network and the application of computing algorithms and solutions using networked computers and devices. Study topics such as physical transmission media, protocols and associated layers, TCP/IP, application programming interfaces and frameworks, sockets, clustering and security. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Spring **College Code:** CAS

CPTR 460 – Software Engineering

Credits: 3

Surveys basic software engineering topics associated with the processes, documents, and products of the entire software life cycle. Topics include software evolution, project organization, and management, feasibility studies, product definition, design, implementation, and testing issues, and the role of the software engineer within the life cycle. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Fall **College Code:** CAS

CPTR 465 – Computer Architecture

Credits: 3

Focus on hardware aspects of computing and logical concepts. Includes data representation for numbers and other data types, Boolean algebra, digital logic circuit representations of basic computational building blocks, CPU components, interrupt schemes and buses. Relevance of supporting concepts is discussed, including system software, assemblers, assembly language programming and operating systems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Spring **College Code:** CAS

CPTR 467 – Database Concepts and Theory

Credits: 3

Study of issues relevant to abstract and concrete aspects in both the creation of database management system software and its use. Indexing, buffering and other internal and physical database design issues. Relational model algebra, calculus and query languages. Functional dependencies and normalization. Study of and modeling using Entity–Relationship and other relevant paradigms. Common application databases. Introduction to the use of transactions, query optimization and non–relational database models. Design and programming assignments using databases. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Spring **College Code:** CAS

CPTR 475 – Topics in _____

Credits: 1–4

Selected topics of current interest in computing such as Robotics, advanced languages, or others. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

CPTR 485 – Computer Graphics

Credits: 3

Introduction to computer graphics focusing on the algorithms and data structures for the modeling and shading of 3–d images. Topics include basic OpenGL programming, mesh generation, shading, raytracing, radiosity methods, procedural textures, and fractal methods. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Fall **College Code:** CAS

CPTR 487 – Artificial Intelligence

Credits: 3

Provides the conceptual basis for understanding current trends in Artificial Intelligence. Topics include both symbolic and numeric processing, intelligent search methods, problem representation, machine learning, expert systems, and a survey of some social implications of AI. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 152. **Offering:** Fall, odd years **College Code:** CAS

CPTR 491 – Computing Capstone I

Credits: 3

The first of a capstone project sequence required for all senior computing majors. Software engineering and its methodologies are applied. Various software life cycle models are incorporated. Students are placed into teams and assigned to a client and/or project. The teams create a project plan, analyze and specify requirements for their project and develop a design. Prototype demonstrations and periodic oral and written progress reports are required to help assure steady progress. Individuals and teams produce a variety of documents throughout the course. Documents include a management plan, project abstracts, a requirements specification, a user interface prototype document, and a design document consisting of architectural and detailed design elements. This course is a writing–intensive course. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 460 **College Code:** CAS

CPTR 492 – Computing Capstone II

Credits: 3

The second of a capstone project sequence required for all computing majors. Students are placed into teams and assigned to complete an existing project for a client. The teams implement and debug code according to a design produced earlier. They produce a testing plan, carry out testing, record test results and summarize them. Prototype demonstrations and periodic progress reports are required to help assure steady progress. Individuals and teams produce a variety of documents throughout the course. These documents include a testing plan, a testing log, and a summary of testing, a maintenance manual and a user manual. Teams also deliver a public demonstration at the end of the course, as well as a final presentation. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CPTR 491. **College Code:** CAS

CPTR 495 – Independent Study

Credits: 1–3

Directed study of material of special interest chosen in consultation with the instructor. No more than 6 credits may be earned in CPTR495. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

CPTR 496 – Special Projects

Credits: 1–3

Project chosen in consultation with instructor. No more than 6 credits may be earned in CPTR 495. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

CPTR 660 – Thesis/Project Extension

Credits: 0

Grade Mode: Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

CPTR 699 – Master's Thesis

Credits: 1–6

To be repeated to 6 credits. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

Engineering

ENGR 120 – Introduction to Engineering & Design

Credits: 2

An introductory course in engineering and design. It teaches the basic principles of design and related design tools from a basic level. Students will be taught to use computer tools for engineering analysis. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

ENGR 125 – Engineering Graphics

Credits: 3

Fundamentals of drawing as applied to mechanical engineering problems. Orthographic projections, auxiliary and sectional views, dimensioning and tolerancing, oblique and isometric views, detail and assembly drawing. Sketching and computer aided drafting. Weekly: two 1-hour lectures and two 1.5-hour labs \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

ENGR 180 – Materials Science

Credits: 4

Introduction to the study of materials. Covers physical properties, application and relevant properties associated with engineering material. A weekly hands-on laboratory helps demonstrate the relationship of properties of materials studied in lecture. Weekly: 3-hour lecture and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** CHEM 131. **Offering:** Spring **College Code:** CAS

ENGR 185 – Engineering Statics

Credits: 3

Principles of statics and their application to engineering problems; forces, moments, couples, friction, centroids and moments of inertia. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** MATH 191. **Offering:** Spring **College Code:** CAS

ENGR 225 – Circuit Analysis

Credits: 3

Resistive circuit analysis, network theorems, dependent sources, energy storage elements, 1st and 2nd order circuit transient responses, ac circuit analysis using phasors and impedances, and ac complex power. Weekly: 2-hour lecture and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 191. **Prerequisite/Corequisite:** MATH 192. **Offering:** Fall **College Code:** CAS

ENGR 248 – Workshop

Credits: 1–4

Provides flexibility for the occasional workshop where it is appropriate to offer engineering credit. Workshop requirements must be approved by the department. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

ENGR 275 – Electronics I

Credits: 3

Introduction to diodes and transistors and their applications in switching and amplification circuits. Introduction to the basic op-amp circuits and their characteristics. Binary numbers and codes, Boolean algebra, logic circuits, flip-flops and registers. Digital circuit applications. Weekly: 2-hour lecture and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 225. **Offering:** Spring **College Code:** CAS

ENGR 285 – Engineering Dynamics

Credits: 3

Vectorial kinematics of moving bodies in fixed and moving reference frames. Kinetics of particles, assemblies of particles, and rigid bodies, with emphasis on the concept of momentum. Keplerian motion, elementary vibrations, and conservative dynamic systems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 185 and MATH 192. **Offering:** Spring **College Code:** CAS

ENGR 310 – Linear Systems Analysis

Credits: 3

Convolution, analysis and spectra of continuous time domain signals, Fourier and Laplace transforms, discrete time domain signals, and the z-transform. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** CPTR 125. **Prerequisite(s):** MATH 215, MATH 286. **Offering:** Spring **College Code:** CAS

ENGR 320 – Manufacturing Processes

Credits: 3

Deals with today's technologies and the future of manufacturing. It includes details of product design process, rapid prototyping and a survey of manufacturing technologies. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 180. **Offering:** Fall **College Code:** CAS

ENGR 325 – Electronics II

Credits: 4

Modeling of transistors, biasing of transistors in amplifier circuits, and amplitude and frequency limitations of transistors. Linear and switching electronic circuits with an emphasis on op-amps. Weekly: 3-hour lecture and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 275. **Offering:** Fall **College Code:** CAS

ENGR 330 – Thermodynamics

Credits: 3

Introduction to the nature of energy and study of energy transport conservation in closed and flowing systems; properties and states of solids, liquids, vapors, and gases; enthalpy; meaning and production of entropy and introduction to cyclic systems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 242. **Offering:** Fall **College Code:** CAS

ENGR 335 – Logic Circuit Design

Credits: 3

Modern digital logic families, state machines, design of digital logic circuits in FPGAs, and VHDL specification of logic circuits. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 275. **Offering:** Fall **College Code:** CAS

ENGR 340 – Mechanics of Materials

Credits: 3

Study of stresses and strain, deformations and deflections of posts, shafts, beams, columns; combined stresses; elasticity. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 185. **Offering:** Fall **College Code:** CAS

ENGR 350 – Sensors and Actuators

Credits: 3

Study of temperature, mechanical, and optical sensors; sensor signal conditioning; ac, dc, and stepping motors; and the motor control requirements. Weekly: 2 lectures and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 275. **Offering:** Spring **College Code:** CAS

ENGR 360 – Fluid Dynamics

Credits: 3

Fluid statics and dynamics of fluid motion. Conservation of mass, momentum, and energy in laminar and turbulent flow. Boundary layer flow, lift and drag forces, viscous flow in conduits, open channel flow, flow measurements. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 285, ENGR 330, MATH 286. **Offering:** Spring **College Code:** CAS

ENGR 380 – Programmable Controllers

Credits: 2

Introduction to typical programmable logic controllers and their applications. Emphasis on programming and interfacing to electromechanical systems. Weekly: 1-hour lecture and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 275. **Offering:** Spring **College Code:** CAS

ENGR 385 – Microprocessor Systems

Credits: 4

Introduction to computer organization, microprocessors, assembly language programming, memory devices, I/O devices, interfacing with emphasis on control applications. Weekly: 3-hour lecture and a 3-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 335 or CPTR 276. **Offering:** Spring **College Code:** CAS

ENGR 390 – Engineering Measurements Lab

Credits: 2

Introduction to various measurement techniques available for mechanical and general engineering application. National Instrument LabView Data Acquisition System is used to collect data for analysis. Weekly: two 3-hour labs \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 330, ENGR 340. **Offering:** Spring **College Code:** CAS

ENGR 410 – Feedback Control Systems

Credits: 4

Study of both analog and digital feedback control systems. Performance criteria and design and analysis methods. Weekly: 3–hour lecture and a 3–hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 275, ENGR 285, and ENGR 310. **Offering:** Fall **College Code:** CAS

ENGR 415 – Virtual Instrumentation

Credits: 3

For engineering majors. Introduction to virtual instrumentation with emphasis on the sampling requirements and the signal conditioning requirements. Data logging and control applications. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 275 and CPTR 125 or CPTR 151. **Offering:** Fall **College Code:** CAS

ENGR 415–02 – Virtual Instrumentation

Credits: 1

Introduction to virtual instrumentation with emphasis on the sampling requirements and the signal conditioning requirements. Data logging and control applications. **Offering:** Fall

College Code: CAS

ENGR 420 – Machine Design

Credits: 3

This course emphasizes both failure theory and analysis as well as the synthesis and design aspect of machine elements. It touches on the commonality of the analytical approaches needed to design a wide variety of elements and the need to use computer aided engineering as an approach to the design and analysis of these classes of problems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 320, ENGR 390. **Offering:** Fall **College Code:** CAS

ENGR 425 – Project Management

Credits: 3

Methodology used successfully to carry out a technical project including proposals, planning, work breakdown, scheduling, creativity, monitoring progress, and documentation. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** STAT 285 or STAT 340. **Offering:** Fall **College Code:** CAS

ENGR 430 – Quality Control

Credits: 3

Analysis of the factors affecting product quality during manufacturing. Topics include use of basic statistics and probability for measurements, observations, sampling, control charts and reliability. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** STAT 285 or STAT 340. **Offering:** Spring **College Code:** CAS

ENGR 435 – Electromagnetic Fields

Credits: 3

Study of static and dynamic electric and magnetic fields. Unbounded and bounded fields, fields in materials, force and torque, energy and potential functions, and Faraday induction. Propagation of electromagnetic energy; plane waves, transmission lines, and waveguides; radiation from dipole antennas; introduction to arrays. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 286, PHYS 242. **Offering:** Fall **College Code:** CAS

ENGR 440 – Heat and Mass Transfer

Credits: 3

Study of steady–state and transient heat conduction, forced and non–forced convection through ducts and over surfaces, blackbody thermal radiation, solar radiation, heat exchangers, and mass transfer. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 360, MATH 286. **Offering:** Spring **College Code:** CAS

ENGR 450 – Engineering Economy

Credits: 2

Study of engineering decision methodology and criteria used to include economic factors in determining the best alternative in the design and selection of equipment, structures, methods, and processes. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 145 or MATH 191. **Offering:** Fall **College Code:** CAS

ENGR 455 – Communication Systems

Credits: 4

Introduction to analog and digital communication systems; including topics in modulation; baseband and bandpass signals; power spectral density and bandwidth; random processes; noise, signal–to–noise ratio, and error probability; and system performance. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 310, ENGR 325, STAT 340. **Offering:** Spring **College Code:** CAS

ENGR 465 – Operations Analysis and Modeling

Credits: 3

The methodology of mathematical modeling and its relation to solving problems in industrial and public systems. Linear programming, scheduling, queuing, simulation, optimization, and decision analysis. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 192, STAT 340. May not be offered each year. **Offering:** Spring **College Code:** CAS

ENGR 470 – Finite Element Methods

Credits: 3

Introduction of finite element methods for the solution of problems in solid mechanics and heat transfer. Techniques for obtaining approximate numerical solutions to governing differential equations in the problem areas are covered. Industrial software is applied to the analysis and design of a broad range of engineering problems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGR 330, ENGR 340, MATH 286. **Offering:** Fall **College Code:** CAS

ENGR 475 – Topics in

Credits: 1–4

Selected topics of current interest in engineering. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** (prerequisites depend on topic). **Repeatable:** Repeatable with different topics **College Code:** CAS

ENGR 478 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department offerings. \$ – Tour fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

ENGR 485 – Community Project in Engineering

Credits: 2–6

“Hands–on” involvement in humanitarian and/or service–oriented projects. Work initiated by students requires prior approval of faculty. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

ENGR 491 – Review of Engineering Design

Credits: 1

Selection, proposal and planning of capstone project. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Offering:** Fall **College Code:** CAS

ENGR 492 – Senior Design Project

Credits: 3

A significant design project which culminates in a working system, component, process or a complete description of a proposed design. Both an oral and written presentation of the results of the project are required. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** ENGR 385 or ENGR 390. **Offering:** Spring **College Code:** CAS

ENGR 495 – Independent Study

Credits: 1–3

Individual study, research, or project in some field of engineering under the direction of a member of the engineering faculty. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** permission of the person who will direct the study. **Repeatable:** Repeatable **College Code:** CAS

ENGR 496 – Cooperative Work Experience

Credits: 1–4

Work experience in industry directed by an engineering faculty member. 120 hours of work is required per credit. A report must be submitted that summarizes the work experience and indicates the value of the experience to the student. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Prerequisite(s):** junior/senior standing and permission of the person who will direct the study. **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

English

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Faculty

Douglas A. Jones, *Chair*
Jeanette Bryson
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Meredith Jones Gray
Eun-Young Kim
Asta Sakala LaBianca
Beverly J. Matiko
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Administrators with appointment in the Dept of English

Andrea T. Luxton
Alayne D. Thorpe

Emeriti

Delmer I. Davis
F. Estella Greig
Merlene A. Ogden

Adjunct faculty

Becky De Oliveira
Ethan E. Jones
Kendra Manuel Smith
Paul Matychuk
Lilia Moncrieff
Laurie Wood
Rebecca Wright
Karen Johnson–McWilliams

Mission

The Andrews University Department of English constitutes a vital component of this distinctive Seventh-day Adventist institution of higher learning. It draws together a diverse community of learners committed to seeking knowledge, affirming faith, and changing the world. Within the framework of Christian faith and purpose, it develops graduates who are competent, creative and critical readers, writers and thinkers, capable of a variety of careers and scholarly pursuits.

English Proficiency Requirements

Students whose first language is not English must provide evidence of English–language proficiency before they are accepted into any program in the Department of English. To qualify for admission, students must obtain at least a minimum composite score on one of the following exams, with component score(s) at or above those indicated:

1. Paper-based TOEFL (ITP) composite score of 600 with no component score lower than 55. An additional written essay exam is required with a minimum score of 80, and an additional speaking evaluation with a score of not less than 3.
2. Internet-based TOEFL (iBT) composite score of 100, with Reading and Listening component scores of at least 15, Writing component score of at least 17, and Speaking component score of at least 18.
3. MELAB composite score of 84 with no component score lower than 80.
4. IELTS composite score of 7, with Reading, Listening, and Speaking component scores of at least 6, and a Writing component score of at least 5.

Exam must be taken within two years prior to enrollment. Exceptions to these requirements may be granted by the Department of English on an individual basis.

English as a Second Language

Housed in the Department of English, the Center for Intensive English offers programs for students who need to complete English language proficiency requirements to meet academic and/or professional requirements. Students may enroll in courses offered in reading, grammar, composition, and oral/aural practice. Students who complete the prescribed Advanced Level classes with a grade of B or better, and who pass the Exit Exam will be granted a certificate of completion. The certificate indicates that the student has completed the Intensive English Language

Program. Visit the English as a Second Language/Center for Intensive English website

Upon completion, students may apply for a transfer into their major of choice. Those planning to complete an undergraduate Bachelor of Arts degree may apply for a foreign language waiver.

School of Education programs/degrees offered in conjunction with the Department of English

Elementary Education, Language Arts Emphasis BS
Language Arts Minor

Bachelors

English, English Education Emphasis BA

BA: English

Core Requirements—12

The remaining courses in the major should be selected in relationship to one of the following emphases.

- ENGL 185 – Much Ado about English Credits: 2
- ENGL 267 – Approaches to Literature Credits: 3
- ENGL 345 – Introduction to Rhetoric Credits: 3
- ENGL 460 – Linguistics Credits: 3
- ENGL 498 – Senior Seminar Credits: 1

English Education Emphasis

(For students seeking secondary teaching certification.)

In addition to the core courses required in the major, students must take:

- ENGL 300 – Modern English Grammar Credits: 3–4
- ENGL 403 – 20th-century English and American Literature Credits: 3
- ENGL 408 – Literature for Young Adults Credits: 2–3
- ENGL 437 – Teaching and Tutoring Writing Credits: 3
- ENGL 459 – Methods of Teaching English Credits: 3

One Course From

- ENGL 273 – American Literature to 1865 Credits: 3
- ENGL 274 – American Literature 1865–1914 Credits: 3

One Course From

- ENGL 371 – English Literature to 1600 Credits: 3
- ENGL 372 – English Literature 1600–1800 Credits: 3
- ENGL 373 – English Literature 1800–1914 Credits: 3

One Course From

- ENGL 404 – New Global Literature Credits: 3
- ENGL 425 – Literary Topics Credits: 3

Two Courses From

- ENGL 315 – Professional Writing Credits: 3
- ENGL 430 – Topics in _____ Credits: 1–4
- ENGL 438 – Advanced Composition Credits: 3
- ENGL 454 – The Writing Life Credits: 3
- ENGL 467 – Creative Writing Credits: 3

General Education Requirements—English Education with Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum.

Note the following **specific** requirements:

Religion: 12—

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- and a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)—

- Intermediate Language Credits: 4

History:

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences:

professional degree requirements

Mathematics:

professional degree requirements

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- plus two Fitness Education courses

Total Credits: 42

English, Literature Emphasis BA

BA: English

Core Requirements—12

The remaining courses in the major should be selected in relationship to one of the following emphases.

- ENGL 185 – Much Ado about English Credits: 2

- ENGL 267 – Approaches to Literature Credits: 3
- ENGL 345 – Introduction to Rhetoric Credits: 3
- ENGL 460 – Linguistics Credits: 3
- ENGL 498 – Senior Seminar Credits: 1

Literature Emphasis

This emphasis is recommended for those planning to do graduate work in English or for those planning professional careers that demand a broad liberal arts background. Please note the **Major Field Exam is required**.

In addition to the core requirements of the major, students must take

- ENGL 450 – Literary Criticism and Theory Credits: 3

Six Courses From

- ENGL 273 – American Literature to 1865 Credits: 3
- ENGL 274 – American Literature 1865–1914 Credits: 3
- ENGL 371 – English Literature to 1600 Credits: 3
- ENGL 372 – English Literature 1600–1800 Credits: 3
- ENGL 373 – English Literature 1800–1914 Credits: 3
- ENGL 403 – 20th–century English and American Literature Credits: 3
- ENGL 404 – New Global Literature Credits: 3

One Course From

- ENGL 315 – Professional Writing Credits: 3
- ENGL 437 – Teaching and Tutoring Writing Credits: 3
- ENGL 438 – Advanced Composition Credits: 3
- ENGL 454 – The Writing Life Credits: 3
- ENGL 467 – Creative Writing Credits: 3

Six Additional Credits

From the Department of English offerings (excluding ENGL 115, and ENGL 215).

Total Credits: 42

English, Writing Emphasis BA

BA: English

Core Requirements—12

The remaining courses in the major should be selected in relationship to one of the following emphases.

- ENGL 185 – Much Ado about English Credits: 2
- ENGL 267 – Approaches to Literature Credits: 3
- ENGL 345 – Introduction to Rhetoric Credits: 3
- ENGL 460 – Linguistics Credits: 3
- ENGL 498 – Senior Seminar Credits: 1

Writing Emphasis

This emphasis is suitable for those planning professional careers as writers or those particularly interested in the teaching of writing. Students selecting this emphasis are encouraged to select a second major or minor that will enhance future employment.

In addition to the core courses required in the major, students must take:

- ENGL 438 – Advanced Composition Credits: 3

Five Courses From

- ENGL 220 – Technical Writing Credits: 3
- ENGL 315 – Professional Writing Credits: 3
- ENGL 437 – Teaching and Tutoring Writing Credits: 3
- ENGL 454 – The Writing Life Credits: 3
- ENGL 467 – Creative Writing Credits: 3
- ENGL 430 – Topics in _____ Credits: 1–4 (with writing content)

- ENGL 497 – Writing Internship Credits: 1–3

Two Courses From

- ENGL 273 – American Literature to 1865 Credits: 3
- ENGL 274 – American Literature 1865–1914 Credits: 3
- ENGL 371 – English Literature to 1600 Credits: 3
- ENGL 372 – English Literature 1600–1800 Credits: 3
- ENGL 373 – English Literature 1800–1914 Credits: 3
- ENGL 403 – 20th-century English and American Literature Credits: 3
- ENGL 404 – New Global Literature Credits: 3

Six Additional Credits

From the Department of English offerings (excluding ENGL 115, and ENGL 215) or related writing courses such as

- JOUR 230 – Beginning Media Writing Credits: 3
- JOUR 330 – Advanced Media Writing Credits: 3
- JOUR 445 – Publication Production Credits: 3
- JOUR 465 – Advanced Topics in Journalism: _____ Credits: 3
- PLSC 316 – Legal Writing and Rhetoric Credits: 3
- DSGN 185 – Digital Publishing Credits: 3

Total Credits: 42

Undergraduate Minors

English Minor

Requirements:

- ENGL 267 – Approaches to Literature Credits: 3

Three of

- ENGL 273 – American Literature to 1865 Credits: 3
- ENGL 274 – American Literature 1865–1914 Credits: 3
- ENGL 371 – English Literature to 1600 Credits: 3
- ENGL 372 – English Literature 1600–1800 Credits: 3
- ENGL 373 – English Literature 1800–1914 Credits: 3
- ENGL 403 – 20th-century English and American Literature Credits: 3
- ENGL 404 – New Global Literature Credits: 3

One of

- ENGL 300 – Modern English Grammar Credits: 3–4
- ENGL 460 – Linguistics Credits: 3

One of

- ENGL 315 – Professional Writing Credits: 3
- ENGL 345 – Introduction to Rhetoric Credits: 3
- ENGL 438 – Advanced Composition Credits: 3
- ENGL 454 – The Writing Life Credits: 3
- ENGL 467 – Creative Writing Credits: 3
- JOUR 230 – Beginning Media Writing Credits: 3

Additional Requirement

Remaining credits from English courses not previously selected (excluding ENGL 115 and ENGL 215). For further information regarding Secondary Certification with a minor see the department of Teaching, Learning & Curriculum

Total Credits: 21

Teaching English to Speakers of Other Languages Minor

Available only to students obtaining elementary or secondary teacher certification. For more information regarding Certification Requirements with a minor, see the department of Teaching, Learning & Curriculum.

Requirements:

- ENGL 300 – Modern English Grammar Credits: 3–4
- ENGL 407 – Literature for Children Credits: 2–3 or
- ENGL 408 – Literature for Young Adults Credits: 2–3

- ENGL435 Topics: TESOL Professional
- ENGL435 Topics: Teaching & Learning for the ESL Classroom
- ENGL 440 – Language and Culture Credits: 3
- ENGL 460 – Linguistics Credits: 3
- ENGL 465 – TESOL Methods Credits: 2
- ENGL 469 – Second Language Acquisition Credits: 3
- ENGL 490 – TESOL Practicum Credits: 1–2

Note:

Does not include ENGL 115, ENGL 215.

Cognate:

- COMM 280 – Voice and Diction Credits: 3

Recommended Elective:

- ENGL435 Topics: TESOL Certificate

Total Credits: 21

Masters

English, General Emphasis MA

Master of Arts

The Department of English offers two programs for its Master of Arts. In addition to the General Education Requirements for the MA degree, the required core courses are:

- ENGL 589 – Graduate Seminar Credits: 3
- ENGL 597 – Research Methods Credits: 3
- ENGL 520 – The Christian Tradition Credits: 3 or
- ENGL 514 – Biblical Literature Credits: 3
- ENGL 595 – Project Research Credits: 1–2
- ENGL 699 – Master's Thesis Credits: 1–4 (a minimum of 1 credit)
- Additional requirements are described below.

General Emphasis

This program provides a balanced array of courses in literature and literary theory, composition and rhetoric, and language. Additional required courses are:

- ENGL 450 – Literary Criticism and Theory Credits: 3
- ENGL 589 – Graduate Seminar Credits: 3 a second seminar
- and at least one graduate course from each of the three areas of literature, composition, and language.

MA Admission and Degree Requirements

1. Applicants must meet the English Proficiency Requirements.
2. Applicants must have earned a minimum of 20 semester hours (30 quarter credits) in English courses as prerequisites, including ENGL 460 (or its equivalent).

- These prerequisites are in addition to the General Education composition requirement.
 - It is desirable to have completed an English undergraduate major of at least 30 semester hours (45 quarter credits).
 - Students taking the MA: English (TESOL) must have completed ENGL 300 (or its equivalent) as a prerequisite.
 - Applicants with fewer English prerequisite credits than the minimum number required must remove the deficiencies by taking additional English courses other than those required for the MA degree.
3. Applicants must demonstrate proficiency in a foreign language by having done one of the following:
 - Earned credit through the intermediate college level with a minimum average grade of C.
 - Passed an exam approved by the English Department.
 - Completed their education through secondary school in a first language other than English.
 4. Students must complete a minimum of 33 English graduate credits.
 5. Candidates must pass written comprehensive examinations (ENGL 670).
 6. Candidates must complete one of the following options:
 - Project paper (30–50+ pages)
 - Two project papers (each a minimum of 20 pages)
 - MA thesis (75–100+ pages)

English, Teaching English to Speakers of Other Languages (TESOL) Emphasis MA

Master of Arts

The Department of English offers two programs for its Master of Arts. In addition to the General Education Requirements for the MA degree, the required core courses are:

- ENGL 589 – Graduate Seminar Credits: 3
- ENGL 597 – Research Methods Credits: 3
- ENGL 520 – The Christian Tradition Credits: 3 or
- ENGL 514 – Biblical Literature Credits: 3
- ENGL 595 – Project Research Credits: 1–2
- ENGL 699 – Master's Thesis Credits: 1–4 (a minimum of 1 credit)
- Additional requirements are described below.

Teaching English to Speakers of Other Languages (TESOL) Emphasis

This program includes extensive study of the English language and linguistics and is particularly appropriate for those who plan to teach English to speakers of other languages or do further work in linguistics. The additional required courses are:

- ENGL 461 – TESOL Theories and Methods Credits: 4
- ENGL 462 – TESOL Pedagogy and Practice Credits: 4
- ENGL 505 – Practicum Credits: 1–2 (2 credits)
- ENGL 540 – Language and Culture Credits: 3
- ENGL 566 – Phonetics and Phonology Credits: 3
- ENGL 569 – Second Language Acquisition Credits: 3
- ENGL 435 – Topics in Linguistics Credits: 1–4
- ENGL 525 – Topics in _____ Credits: 1–4
- ENGL 589 – Graduate Seminar Credits: 3 *
- ENGL525 Teaching and Tutoring Writing or
- ENGL 550 – Study of Composition Credits: 3

Note:

* The second graduate seminar may be replaced by a graduate literature course, COMM 536, or EDRM 611.

MA Admission and Degree Requirements

1. Applicants must meet the English Proficiency Requirements.
2. Applicants must have earned a minimum of 20 semester hours (30 quarter credits) in English courses as prerequisites, including ENGL 460 (or its equivalent).

- These prerequisites are in addition to the General Education composition requirement.
 - It is desirable to have completed an English undergraduate major of at least 30 semester hours (45 quarter credits).
 - Students taking the MA: English (TESOL) must have completed ENGL 300 (or its equivalent) as a prerequisite.
 - Applicants with fewer English prerequisite credits than the minimum number required must remove the deficiencies by taking additional English courses other than those required for the MA degree.
1. Applicants must demonstrate proficiency in a foreign language by having done one of the following:
 - Earned credit through the intermediate college level with a minimum average grade of C.
 - Passed an exam approved by the English Department.
 - Completed their education through secondary school in a first language other than English.
 2. Students must complete a minimum of 33 English graduate credits.
 3. Candidates must pass written comprehensive examinations (ENGL 670).
 4. Candidates must complete one of the following options:
 - Project paper (30–50+ pages)
 - Two project papers (each a minimum of 20 pages)
 - MA thesis (75–100+ pages)

Certificates

Action America

ACTION AMERICA, on the campus of Andrews University in Berrien Springs, Michigan, will enhance your English skills through short-term intensive language study, cultural and professional experiences, travel, and interaction with native English speakers.

Andrews University is home to 3,000 students from more than 90 countries and offers over 200 academic programs. Founded in 1874 by the Seventh-day Adventist Church, Andrews is accredited by the North Central Association of Schools and Colleges.

Located near the picturesque shores of Lake Michigan, Andrews University lies in the midst of grape vineyards and apple, peach and cherry orchards. Lake Michigan, well-known for its white sandy beaches and small coastal towns, is one of the largest of America's five Great Lakes.

As an integral part of the program, ACTION AMERICA students will enjoy a variety of activities, both locally and in Chicago. Just across the lake from Andrews, Chicago is famous for its dazzling waterfront, excellent shopping and exciting cultural opportunities. The Art Institute of Chicago, the Shedd Aquarium, the Sears Tower—one of the tallest buildings in the world—and the Field Museum of Natural History are some of Chicago's greatest attractions.

Fruit and berry picking at local farms and orchards is a favorite activity for visitors to Southwest Michigan. Those who enjoy the outdoors will find the area beaches, lakes and rivers excellent for swimming, canoeing, cook-outs and picnics. Nearby forest trails are ideal for hiking.

Sports fans will also find plenty to do while visiting the area and may attend local games in nearby towns and Chicago. For those who wish to participate in sports, the Andrews campus is equipped with baseball, football and soccer fields, basketball, tennis and racquetball courts, and an Olympic-sized, indoor swimming pool. On-campus health clubs with state-of-the-art exercise equipment are also available.

Students will also attend local indoor and outdoor concerts, theaters, and museums and will enjoy restaurants with foods from around the world. Summer fairs and festivals provide excellent opportunities to experience small-town and big-city American culture at its finest.

Requirements

Action America offers short-term intensive language study, combined with cultural and professional experiences and travel, for non-credit students. The 2013 Action America session will take place June 28 – July 26. We recommend that participants arrive on Friday, June 28, and plan to stay through July 26 or, at the latest, July 28.

Participants must be at least 16 years of age and must acquire a student visa for entry into the United States. The application for Action America includes the information needed for the I-20. After receiving the I-20 document from Andrews University, the student will need to make an appointment with the American Consulate in the country of origin to apply for the visa.

Customized sessions can be arranged for groups of twelve or more.

Students will be given English placement tests on arrival and assigned to appropriate courses.

Fees

Fees for Action America are based on individual or group rates.

Program Description

One four-week intensive is offered in June/July of each year.

All students participate in 30 hours a week of intensive language instruction, including:

- TOEFL preparation
- Grammar, reading and writing
- Listening, pronunciation and idioms
- Interaction with native English speakers
- Instructional videos and games
- Field trips
- Institutional TOEFL

All students who fulfill program requirements will receive a **certificate of completion**.

Experiencing the American culture is also an integral part of the program. Out-of-class activities—designed for professionals as well as students—include:

- Trips to Chicago
- Opportunities to meet people from America and around the world
- Sporting events such as baseball and basketball
- Theater attendance and dining out
- Shopping locally and in Chicago
- Conversational training in everyday situations
- Seasonal sports such as skiing & beach volleyball

Choices for Professionals

ACTION AMERICA also offers a variety of activities specifically designed for professionals. These include:

- Lectures on diverse topics
- Tours of American organizations
- Interviews with professionals
- Visits to university classes (as available)
- In-class, career-related assignments

Tailor-made Sessions

In addition to the regular schedule, ACTION AMERICA will design sessions at any time throughout the year based on the scheduling and curriculum needs of an organization. The group sessions must include 12 or more participants.

Those interested in tailor-made sessions should contact action@andrews.edu regarding session costs.

Professional

The Professional option includes classes and activities which promote language learning in the general professional area of the participants (business, medicine, religious institutions, etc.). Communication skills will be enhanced through in-class assignments, interaction with American professionals, tours of local organizations and other career-related field trips.

Cultural

The Cultural option is for groups of students and professionals who wish to experience the American culture in addition to improving language skills. Groups may select the activities they prefer.

English

Note: ENGL 115, 215 are prerequisite to all upper division courses in English with the exception of ENGL 300. Writing courses may not be audited.

ENGL 115 – English Composition I

Credits: 3

Introduction to written composition focusing on composing as a recursive process for generating meaning and communicating effectively. Emphasizes short essay writing based on personal explorations of memory, observation, conversation, and reading. **Delivery:** Interactive online option available **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Prerequisite for students whose native language is not English: An overall average of 550 on TOEFL or 80 on MELAB or a successful completion of advanced English in the Intensive English program with a B in all classes and a pass on the CIE exit exam. Cannot be audited or CLEPed. **College Code:** CAS

ENGL 115V – English Composition I

Credits: 3

Introduction to written composition focusing on composing as a recursive process for generating meaning and communicating effectively. Emphasizes short essay writing based on personal explorations of memory, observation, conversation, and reading. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

ENGL 185 – Much Ado about English

Credits: 2

An introductory course, organized thematically, featuring various texts and approached from several perspectives, including linguistic, rhetorical, and literary analysis. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENGL 215 – English Composition II

Credits: 3

An introduction to source-based, academic writing, Including practice in summarizing, analyzing, synthesizing, and reading from a critical perspective. Sections organized thematically. **Delivery:** Interactive online option available **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and completion of 24 semester credits. Cannot be audited or CLEPed. **College Code:** CAS

ENGL 220 – Technical Writing

Credits: 3

Instruction and practice in designing technical reports. Course studies rhetorical problems and practical strategies related to analyzing and communicating technical information to technical and non-technical audiences. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115. Cannot be audited. **College Code:** CAS

ENGL 255 – Studies in Literature

Credits: 3

An introductory literature course with the emphasis indicated by a subtitle, such as World Literature, Biblical Literature, or Short Story. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115. **Repeatable:** Repeatable **Offering:** Fall, Spring **College Code:** CAS

ENGL 267 – Approaches to Literature

Credits: 3

An introduction to genres, analysis, critical approaches, and writing about literature. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115. **College Code:** CAS

ENGL 270V – American Literature to 1900

Credits: 3

A survey of American literature from its beginnings to 1900. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** ENGL 115. **College Code:** CAS

ENGL 273 – American Literature to 1865

Credits: 3

A survey of American literature from the 17th century through the Civil War. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115. **Offering:** Alternate years **College Code:** CAS

ENGL 274 – American Literature 1865–1914

Credits: 3

A survey of American literature from the Civil War to World War I. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115. **Offering:** Alternate years **College Code:** CAS

ENGL 300 – Modern English Grammar

Credits: 3–4

Basic English syntax for students and future teachers, including grammatical terminology and a brief history of grammatical models. Students needing study in the history of the English language should enroll for 4 credits. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115. **College Code:** CAS

ENGL 315 – Professional Writing

Credits: 3

Practice in adapting writing to a variety of professional audiences and tasks, including resumes, proposals, business and technical reports, web writing, and collaborative writing. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. Cannot be audited. **College Code:** CAS

ENGL 345 – Introduction to Rhetoric

Credits: 3

An introduction to the study of rhetoric, including classical and modern theories. Emphasis is given to the practical applications of rhetorical analysis in mass media, advertising, literary and political representations. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **College Code:** CAS

ENGL 371 – English Literature to 1600

Credits: 3

A survey of literature of the British Isles from Beowulf through the 16th century. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **Offering:** Alternate years **College Code:** CAS

ENGL 372 – English Literature 1600–1800

Credits: 3

A survey of literature of the British Isles of the 17th and 18th centuries. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **Offering:** Alternate years **College Code:** CAS

ENGL 373 – English Literature 1800–1914

Credits: 3

A survey of Literature of the British Isles from the 19th century to World War I. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **Offering:** Alternate years **College Code:** CAS

ENGL 375V – English Literature I (to 1660)

Credits: 3

Literature of the British Isles from Beowulf through the Renaissance. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** ENGL 115 and ENGL 215. **College Code:** CAS

ENGL 376V – English Literature II (1660–1900)

Credits: 3

Literature of the British Isles from the Restoration through the Victorian period. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** ENGL 115 and ENGL 215. **College Code:** CAS

ENGL 403 – 20th-century English and American Literature

Credits: 3

A survey of 20th-century literature of British, American and other literature in English. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215 and ENGL 267. **Offering:** Alternate years **College Code:** CAS

ENGL 404 – New Global Literature

Credits: 3

A survey of recent global literary texts with a focus on issues of diversity. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215 and ENGL 267. **Offering:** Alternate years **College Code:** CAS

ENGL 407 – Literature for Children

Credits: 2–3

Selection, analysis, and evaluation of literary works which meet the reading and/or the listening interests of children and enhance the preparation of elementary teachers, librarians, and parents. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **College Code:** CAS

ENGL 408 – Literature for Young Adults

Credits: 2–3

Selection, analysis, and evaluation of literary works that meet the reading interests of young adults and enhance the preparation of middle-school and secondary English teachers, librarians, and parents. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215. **Offering:** Alternate years **College Code:** CAS

ENGL 414 – Biblical Literature

Credits: 3

Advanced study of the English Bible as literature and its literary influences. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215, ENGL 267 **College Code:** CAS

ENGL 415 – Gender Studies in Literature

Credits: 3

Advanced study of literary texts dealing with gender issues. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL115, ENGL215, ENGL267 **College Code:** CAS

ENGL 425 – Literary Topics

Credits: 3

Advanced study of a literary period, genre, or theme, such as Victorian Literature, Poetry, Biblical Literature, Women's Literature or the Classical Heritage. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215, and ENGL 267. **Repeatable:** Repeatable **College Code:** CAS

ENGL 430 – Topics in _____

Credits: 1–4

Study of selected topics in composition, language, or literature. Topic and credit to be announced in advance. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **Repeatable:** Repeatable up to 12 credits with different topics **College Code:** CAS

ENGL 435 – Topics in Linguistics

Credits: 1–4

Study of topics in linguistics such as bilingualism, the TESOL professional, teaching and learning in the ESL classroom, or the TESOL Certificate Program. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **Repeatable:** Repeatable with different topics **College Code:** CAS

ENGL 437 – Teaching and Tutoring Writing

Credits: 3

Theory and practice in teaching, tutoring and responding to student writing. Exercises in composition, revision and evaluation. A minimum of 20 hours tutoring required. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **College Code:** CAS

ENGL 438 – Advanced Composition

Credits: 3

An exploration of published essays, writing theory, and strategies. Student essays move beyond—in style, scope and subject matter—the writing done in ENGL 115 and ENGL 215, which are prerequisites. Cannot be audited. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

ENGL 440 – Language and Culture

Credits: 3

The study of language in the context of ethnology with emphasis on (1) the effect of social variables (including gender) on language use, and (2) on paralanguage (e.g., kinesics and proxemics). **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215, and ENGL 460 or permission of instructor. **Offering:** Alternate years **College Code:** CAS

ENGL 450 – Literary Criticism and Theory

Credits: 3

An introduction to literary criticism and theory. Readings start with Plato, but special emphasis is on New Criticism to the present. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215, and ENGL 267. **College Code:** CAS

ENGL 454 – The Writing Life

Credits: 3

An exploration of composition theory and writing practice through the study of published writers' narrative accounts of the writing life. Students engage in an extended writing project selected in consultation with the instructor. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. Cannot be audited. **Offering:** Alternate years **College Code:** CAS

ENGL 459 – Methods of Teaching English

Credits: 3

An integration and exploration of pedagogical theories and practices in literature for young adults, and writing and language study for the secondary-school classroom. Does not apply toward the first 16 credits in English for an MAT degree. Enrollment by permission of the instructor. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **Offering:** Alternate years **College Code:** CAS

ENGL 460 – Linguistics

Credits: 3

An introduction to linguistics for those planning to teach or work in the area of language, communication, or English on any level. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. **College Code:** CAS

ENGL 461 – TESOL Theories and Methods

Credits: 4

Critical survey of traditional and current theories and methods of teaching English to speakers of other languages. Includes supervised observation of ESL classes. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENGL 462 – TESOL Pedagogy and Practice

Credits: 4

Study of current methods and techniques for teaching reading, writing, speaking, and listening to speakers of other languages. Includes supervised teaching of ESL classes. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 461 – TESOL Theories and Methods. **College Code:** CAS

ENGL 464 – Major Literary Author

Credits: 3

Study of a major author, such as Chaucer, Shakespeare, Johnson, Dickens, Hawthorne, or Cather. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215, and ENGL 267. **Repeatable:** Repeatable with different topics **College Code:** CAS

ENGL 465 – TESOL Methods

Credits: 2

Specialized techniques for teaching and testing various English-language skills. Content rotates among grammar; reading and writing; speaking and listening. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** ENGL 490 or ENGL 505–002 TESOL Practicum. **Prerequisite(s):** ENGL 115, ENGL 215, and ENGL 460 **Repeatable:** Repeatable with different topics **College Code:** CAS

ENGL 467 – Creative Writing

Credits: 3

Practice in writing stories, essays, poetry, or drama. Course emphasis changes from semester to semester. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115 and ENGL 215. Cannot be audited. **Repeatable:** Repeatable up to 9 credits with different topics **College Code:** CAS

ENGL 469 – Second Language Acquisition

Credits: 3

Study of current theories of and research in language acquisition and the implications of this scholarship for language teachers and teaching. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215, and ENGL 460 or permission of instructor. **Offering:** Alternate years **College Code:** CAS

ENGL 478 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

ENGL 490 – TESOL Practicum

Credits: 1–2

Study of and/or supervised practice in teaching English as a second language. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** Permission of instructor required. **Repeatable:** Repeatable up to 3 credits **College Code:** CAS

ENGL 495 – Independent Study/Readings

Credits: 1–3

Studies in various areas of language, literature, or composition under supervision of an appropriate instructor, including regular conferences, and resulting in oral and/or written reports and papers. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

ENGL 497 – Writing Internship

Credits: 1–3

Students intern 90 clock hours per hour of credit in journalism, business or other approved field. Procedures and guidelines available from department. Open only to Writing Emphasis students. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215 and either ENGL 315 or JOUR 230. **Repeatable:** Repeatable up to 3 credits **College Code:** CAS

ENGL 498 – Senior Seminar

Credits: 1

Discussion topics include career and placement. The development of a senior portfolio including capstone writing project. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** 24 credits in English (not including ENGL 115, ENGL 215) or by permission of the instructor. **College Code:** CAS

ENGL 505 – Practicum

Credits: 1–2

Study of and/or supervised practice in teaching college writing (section 01) or English as a second language (section 02). **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite/Corequisite:** Prerequisite or corequisite for those teaching English as a second language: ENGL 465. **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

ENGL 514 – Biblical Literature

Credits: 3

Advanced study of the English Bible as literature and its literary influences. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENGL 515 – Gender Studies in Literature

Credits: 3

Advanced study of literary texts dealing with gender issues. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENGL 520 – The Christian Tradition

Credits: 3

The study of noteworthy Christian literature, including works by authors such as John Milton, C.S. Lewis, G.K. Chesterton, and Flannery O'Connor. Also may include focus on Christian perspectives in response to literature. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

ENGL 525 – Topics in _____

Credits: 1–4

Study of selected topics in composition (Modern Rhetoric), language (Contrastive Analysis), or literature (Shakespeare, Literature on Location, or Drama). Topic and credit to be announced in advance. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 12 credits with different topics **College Code:** CAS

ENGL 540 – Language and Culture

Credits: 3

Study of language in the context of ethnology with emphases on (1) the effect of social variables (including gender) on language use, and on (2) paralanguage (e.g., kinesics and proxemics). **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 460 or permission of instructor. **Offering:** Alternate years **College Code:** CAS

ENGL 550 – Study of Composition

Credits: 3

Introduction to rhetorical and other principles involved in the writing process and in the teaching of composition to secondary–school and college students. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENGL 566 – Phonetics and Phonology

Credits: 3

Study of speech sounds and patterns including articulatory phonetics, phonemics, and an introduction to modern phonological theory and analysis. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215 and ENGL 460 or permission of instructor. **College Code:** CAS

ENGL 569 – Second Language Acquisition

Credits: 3

Study of current theories of and research in language acquisition and the implications of this scholarship for language teachers and teaching. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ENGL 115, ENGL 215 and ENGL 460 or permission of instructor. **College Code:** CAS

ENGL 589 – Graduate Seminar

Credits: 3

Research projects, reports, and discussions. Seminars are offered in various subjects corresponding with faculty specialization and greatest library strength. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** ENGL 597. **Repeatable:** Repeatable with different topics **College Code:** CAS

ENGL 590 – Independent Study in English

Credits: 1–3

Individualized reading or research in a specified area under the guidance of an instructor; admission by the chair’s consent. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 595 – Project Research

Credits: 1–2

Research and writing leading to the completion of the required project paper under the guidance of an instructor. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

ENGL 597 – Research Methods

Credits: 3

Research materials, methods of research, and documentation in English studies. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 648 – Workshop

Credits: 1–4

Intensive study on selected topics. As needed **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 650 – Project Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full–time status. **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 655 – Program Continuation

Credits: 0

Students may register for this non–credit continuation course to maintain active status. For additional information on active status see Admission Status Categories in the School of Graduate Studies and Research. Registration does not indicate full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 660 – Thesis Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 665 – Preparation for Comprehensive Exams

Credits: 0

Advisor approval required. Registration for this title indicates fulltime status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

ENGL 670 – Comprehensive Exam

Credits: 0

\$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

ENGL 699 – Master’s Thesis

Credits: 1–4

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

Intensive English

ENSL 130 – English for Academic Purposes:

Beginning/Intermediate/Advanced

Credits: 0 cr 1–16 hr

Individual and small group study of English as a second language in preparation for undergraduate and graduate study. May include (but not limited to) grammar, writing, reading, listening, and speaking. All international students are required to be in class a minimum of 12 hours per week. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different content **College Code:** CAS

ENSL 135 – Intermediate Grammar

Credits: 4

Develops the grammatical skills necessary for clear written and oral communication. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 136 – Intermediate Speaking and Listening

Credits: 4

Develops fluency in conversation and accuracy in listening skills necessary for effective communication in academic and nonacademic settings. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 137 – Intermediate Writing

Credits: 4

Develops writing strategies and skills necessary for well–developed, grammatical academic writing. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 138 – Intermediate Reading

Credits: 4

Develops vocabulary, reading skills, and strategies in critical thinking necessary for university course work. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 145 – Advanced Grammar Review

Credits: 4

A rapid and intensive review of English grammar. Emphasis is on accurate grammar usage in a variety of communicative and academic contexts, both oral and written. Advanced students only. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 155 – Pronunciation

Credits: 4

Pronunciation improvement, with emphasis on vowels, consonants, word stress, and intonation patterns. Advanced and intermediate students only. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different content **College Code:** CAS

ENSL 165 – TOEFL Preparation: Intermediate/Advanced

Credits: 2

Intensive preparation for the TOEFL, including review and strategies for taking grammar, reading, listening, and writing sections of the test. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different content **College Code:** CAS

ENSL 166 – The American Experience: Basic/Intermediate/Advanced

Credits: 1–5

An introduction to American culture, appropriate to proficiency level, through readings, discussion, and activities in American literature, history, and culture. Includes field trips and participation in cultural activities. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 5 credits **College Code:** CAS

ENSL 167 – Research Seminar: Advanced Writing

Credits: 4

Develops research writing skills, with emphasis on summary, paraphrase, synthesis, organization, and appropriate use of sources. Advanced students only. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 168 – Research Seminar: Advanced Reading and Discussion

Credits: 4

Develops skills in the analytical reading and discussion of academic research, oral presentation of research, and note taking. Advanced students only. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ENSL 195 – Individualized Study: Beginning/Intermediate/Advanced

Credits: 1–12

Individualized study of English as a second language, appropriate to proficiency level. May include (but not limited to) grammar, writing, reading, listening, and speaking. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** Repeatable with different content. **Repeatable:** Repeatable **College Code:** CAS

**ENSL 530 – English for Academic Purposes:
Beginning/Intermediate/Advanced**

Credits: 0 cr 1–16 hr

Individual and small group study of English as a second language in preparation for undergraduate and graduate study. May include (but not limited to) grammar, writing, reading, listening, and speaking. All international students are required to be in class a minimum of 12 hours per week. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

English as a Second Language

CENTER FOR INTENSIVE ENGLISH PROGRAMS

Nethery Hall, Room 203

269-471-2260

english@andrews.edu

www.andrews.edu/cas/english/esl/

Faculty

Jeanette Bryson, *Director*

Asta LaBianca

Dianne Staples

Mission

The Intensive English program at Andrews University seeks to provide students with an opportunity to develop the skills needed to:

- Meet life's needs in aural/oral and written communication
- Communicate within the language formalities of an academic institution
- Prepare for college/university entrance

Methods

- We offer a rigorous academic program to help students prepare to apply to college/university
- We enhance English skills through a variety of academic, cultural, and professional experiences
- We mentor graduate students who teach English language learners
- We establish tutorials and conversation partners to encourage interaction with native English speakers
- We maintain small class sizes for optimal learning

Results

- Participants matriculate into undergraduate and graduate programs
- Professionals achieve language proficiency
- Participants function within the various language formalities

Programs

English for Academic Purposes (credit-bearing)

- English Language Proficiency
- College/university Preparation
 - Research Seminar: Writing
 - Research Seminar: Reading
 - Pronunciation
 - TOEFL Preparation
- Second Language Waiver

English Language Training (non-credit bearing)

- Non-Credit ESL Courses (concurrent with fall and spring semesters)
 - Individuals may register for non-credit undergraduate (ENSL 130) and graduate (ENSL 530) courses
 - Tuition for the semester is \$4,140 for 12-16 non-credit hours or \$345 per non-credit hour for up to 12 hours
 - Fees do not include textbooks, health insurance, or airfare to and from Andrews University
 - Transportation will be provided to and from the South Bend Regional Airport, as needed
 - Health insurance is required for enrollment at Andrews University and is available from the university for a cost of \$101 per month. Participants in the program must either show proof of insurance or purchase insurance through Andrews University.
- Short-term Intensives
 - Fall Semester: Classes begin in August ; students may merge into classes until mid term

- Spring Semester: Classes begin in January; students may merge into classes until mid term
- Program fees will be pro-rated based on the number of weeks spent in the program
- Housing and cafeteria meal plans are available for additional cost

- **Action America Summer Intensive**

- English language classes
- Cultural immersion
- Professional experiences
- Educational excursions

Visit the Action America program page

History & Political Science

Buller Hall, Room 135
269-471-3292
history@andrews.edu
www.andrews.edu/cas/history/

Faculty

John J. Markovic, *Chair*
Brent A. Geraty
Marcella Myers
Kathryn M. Silva Banks
Brian E. Strayer
Gary V. Wood

Mission

The Andrews University Department of History & Political Science constitutes a vital component of this distinctive Seventh-day Adventist institution of higher learning. Serving its majors and minors and General Education, the department promotes the study of history, politics and philosophies within the framework of a Christian worldview, emphasizing both individual and corporate responsibility for service to humanity.

Bachelors

History BA

Degree Requirements

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- HIST 277 – History Colloquium Credits: 0
- HIST 290 – Research Seminar Credits: 3
- HIST 404 – Adventist Heritage Credits: 3
- HIST 480 – Senior Seminar Credits: 3
- HIST 488 – Faith and History Credits: 3
- **two** upper division courses in American History
- and **two** upper division courses in European **or** other non-U.S. history

Electives:

Six credits of the following political science courses may be applied to the history major:

- PLSC 104 – American Government Credits: 3
- PLSC 365 – American Foreign Relations Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- PLSC 457 – Modern Political Thought Credits: 3 **or**
- PLSC 458 – American Political Thought Credits: 3
- Remaining credits chosen in consultation with the advisor.

Total Credits: 42

Note:

For BA majors in History or Political Science, and BS majors in Political Science or Social Studies, a statistics/mathematics course will fulfill the GE mathematics requirements.

Degree Requirements for Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3
- HIST 204 – American Experience I Credits: 3

- HIST 205 – American Experience II Credits: 3
- HIST 277 – History Colloquium Credits: 0
- HIST 290 – Research Seminar Credits: 3
- HIST 404 – Adventist Heritage Credits: 3
- HIST 459 – Special Methods in Teaching History and Social Studies Credits: 3
- HIST 480 – Senior Seminar Credits: 3
- HIST 488 – Faith and History Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- PLSC 104 – American Government Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PLSC 365 – American Foreign Relations Credits: 3
- PLSC 435 – Public Policy Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- PLSC 460 – Area Study: Credits: 3

Total Credits: 54

General Education Requirements for Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum.

Religion: 12—

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- and a 3-credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)—

- Intermediate Language Credits: 4

History:

Covered in major

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences:

professional degree requirements

Mathematics:

professional degree requirements

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- plus two Fitness Education courses

Political Science BA

Degree Requirements

- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 277 – Political Science Colloquium Credits: 0
- PLSC 298 – Research Seminar Credits: 3
- PLSC 410 – Comparative Political Theory and Method Credits: 3
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3

Choose one of the following courses:

- PLSC 225 – Comparative Politics Credits: 3 **or**
- PLSC 230 – International Relations Credits: 3

Choose one of the Following

- PLSC 326 – American Political Institutions: Judiciary Credits: 3
- PLSC 327 – American Political Institutions: Presidency Credits: 3
- PLSC 328 – American Political Institutions: Congress Credits: 3
- PLSC 329 – American Political Institutions: Bureaucracy Credits: 3

Choose two of the following:

- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- PLSC 457 – Modern Political Thought Credits: 3
- PLSC 458 – American Political Thought Credits: 3

Electives:

Remaining credits chosen in consultation with the advisor. A maximum of 12 credits of PLSC 378 and PLSC 490 may be applied to the major.

Note:

The Major Field Achievement Test in political science must be taken by all majors in their senior year.

Total Credits: 42

Degree Requirements for Secondary Certification

See Department of Teaching, Learning & Curriculum section under School of Education for teaching certification requirements
Required courses:

- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PLSC 277 – Political Science Colloquium Credits: 0
- PLSC 298 – Research Seminar Credits: 3
- PLSC 435 – Public Policy Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- HIST 204 – American Experience I Credits: 3

- HIST 205 – American Experience II Credits: 3
- HIST 459 – Special Methods in Teaching History and Social Studies Credits: 3

Choose one from each of the following sets:

- PLSC 225 – Comparative Politics Credits: 3
- PLSC 230 – International Relations Credits: 3
- PLSC 457 – Modern Political Thought Credits: 3
- PLSC 458 – American Political Thought Credits: 3

Total Credits: 42

Note:

For BA majors in History or Political Science, and BS majors in Political Science or Social Studies, a statistics/mathematics course will fulfill the GE mathematics requirements.

General Education Requirements for Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum.

Religion: 12—

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- and a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)—

- Intermediate Language Credits: 4

History:

Covered in major

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences:

professional degree requirements

Mathematics:

professional degree requirements

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- plus two Fitness Education courses

Political Science BS

Degree Requirements

- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 277 – Political Science Colloquium Credits: 0
- PLSC 298 – Research Seminar Credits: 3
- PLSC 410 – Comparative Political Theory and Method Credits: 3
- BHSC 230 – Research Methods I: Statistics for the Behavioral Sciences Credits: 3

Choose one of the following courses:

- PLSC 225 – Comparative Politics Credits: 3 **or**
- PLSC 230 – International Relations Credits: 3

Choose one of the Following

- PLSC 326 – American Political Institutions: Judiciary Credits: 3
- PLSC 327 – American Political Institutions: Presidency Credits: 3
- PLSC 328 – American Political Institutions: Congress Credits: 3
- PLSC 329 – American Political Institutions: Bureaucracy Credits: 3

Choose two of the following:

- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- PLSC 457 – Modern Political Thought Credits: 3
- PLSC 458 – American Political Thought Credits: 3

Electives:

Remaining credits chosen in consultation with the advisor. A maximum of 12 credits of PLSC 378 and PLSC 490 may be applied to the major.

Note:

The Major Field Achievement Test in political science must be taken by all majors in their senior year

Total Credits: 42

Degree Requirements for Secondary Certification

See Department of Teaching, Learning & Curriculum section under School of Education for teaching certification requirements
Required courses:

- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PLSC 277 – Political Science Colloquium Credits: 0
- PLSC 298 – Research Seminar Credits: 3
- PLSC 435 – Public Policy Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- HIST 459 – Special Methods in Teaching History and Social Studies Credits: 3

Choose one from each of the following sets:

- PLSC 225 – Comparative Politics Credits: 3
- PLSC 230 – International Relations Credits: 3
- PLSC 457 – Modern Political Thought Credits: 3
- PLSC 458 – American Political Thought Credits: 3

Total Credits: 42

Note:

For BA majors in History or Political Science, and BS majors in Political Science or Social Studies, a statistics/mathematics course will fulfill the GE mathematics requirements.

General Education Requirements for Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum.

Religion: 12—

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- and a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)—

- Intermediate Language Credits: 4

History:

Covered in major

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences:

professional degree requirements

Mathematics:

professional degree requirements

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- plus two Fitness Education courses

Social Studies BS

Degree Requirements

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- HIST 277 – History Colloquium Credits: 0
- HIST 290 – Research Seminar Credits: 3
- HIST 404 – Adventist Heritage Credits: 3
- **one** upper-division United States
- **one** upper-division European or other non-U.S. history course
- PLSC 104 – American Government Credits: 3
- PLSC 225 – Comparative Politics Credits: 3 **or**
- PLSC 230 – International Relations Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- ECON 226 – Principles of Microeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- GEOG 260 – Cultural Geography Credits: 3
- BHSC 235 – Culture, Place and Interdependence Credits: 3

Electives:

Remaining credits chosen from history, political science, geography, and economics.

Total Credits: 57

Students seeking secondary certification

See Department of Teaching, Learning & Curriculum section under School of Education for teaching certification requirements.

- BHSC 235 – Culture, Place and Interdependence Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- ECON 226 – Principles of Microeconomics Credits: 3
- FNCE 206 – Personal Finance Credits: 2–3
- GEOG 110 – Survey of Geography Credits: 3
- GEOG 260 – Cultural Geography Credits: 3
- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- PLSC 277 – Political Science Colloquium Credits: 0
- HIST 290 – Research Seminar Credits: 3
- HIST 404 – Adventist Heritage Credits: 3
- HIST 459 – Special Methods in Teaching History and Social Studies Credits: 3
- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 225 – Comparative Politics Credits: 3 **or**
- PLSC 230 – International Relations Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PLSC 435 – Public Policy Credits: 3
- plus 3 credits of electives

Total Credits: 56

General Education Requirements for Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree see the department of Teaching, Learning & Curriculum.

Religion: 12—

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- and a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)—

- Intermediate Language Credits: 4

History:

Covered in major

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art Credits: 3
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music Credits: 3

Life/Physical Sciences:

professional degree requirements

Mathematics:

professional degree requirements

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- Plus two Fitness Education courses

Undergraduate Minors

History Minor

Minor Requirements

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- HIST 404 – Adventist Heritage Credits: 3
- and 6 additional credits to be selected from upper-division history courses.

Total Credits: 21

Minor Requirements for Secondary Certification

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- HIST 290 – Research Seminar Credits: 3
- HIST 404 – Adventist Heritage Credits: 3
- HIST 459 – Special Methods in Teaching History and Social Studies Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- GEOG 110 – Survey of Geography Credits: 3
- PLSC 104 – American Government Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PLSC 435 – Public Policy Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3

Total Credits: 39

Political Science Minor

Degree Requirements

- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 225 – Comparative Politics Credits: 3 OR PLSC 230 – International Relations Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- and 6 additional credits to be selected from upper-division political science courses.

One of

- PLSC 326 – American Political Institutions: Judiciary Credits: 3
- PLSC 327 – American Political Institutions: Presidency Credits: 3
- PLSC 328 – American Political Institutions: Congress Credits: 3
- PLSC 329 – American Political Institutions: Bureaucracy Credits: 3

Total Credits: 21

Students seeking secondary certification

- PLSC 104 – American Government Credits: 3
- PLSC 120 – Analyzing Politics Credits: 3
- PLSC 225 – Comparative Politics Credits: 3 OR PLSC 230 – International Relations Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3
- PLSC 435 – Public Policy Credits: 3
- PLSC 456 – Classical, Medieval and Early Modern Political Thought Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3

- GEOG 110 – Survey of Geography Credits: 3
- HIST 204 – American Experience I Credits: 3
- HIST 205 – American Experience II Credits: 3
- HIST 459 – Special Methods in Teaching History and Social Studies Credits: 3

Total Credits: 33

Masters

History MAT

The degree prepares students for teaching history and government in secondary schools and is offered through the School of Education. Candidates must have passed basic undergraduate survey courses in World Civilizations and United States History. Graduate courses should be elected to include a variety of period, topical, and geographic-area courses. A minimum of 6 credits elected in these areas must be at the 500 level. At least 2 credits in HIST 590 are required. HIST 459 is required but does not count toward the minimum 12 credits of history.

Candidates select their courses in consultation with the chair of the department or an advisor designated by the chair. See the School of Education section of this bulletin for further information regarding teacher certification and the MAT degree program.

Pre-Professional

Pre-Professional Curricula in Public History

Public or applied history refers to careers in history-related fields other than teaching. The major areas include museum management, archival management, and historic preservation, as well as the production of historical programs for the media. A master's degree in a public or applied history program or certification upon completion of certain graduate courses is needed prior to employment. The Department of History & Political Science recommends curricula which combine a major in history with a second major or minor and electives, providing an advantageous undergraduate basis for a public history career. Curriculum recommendations are available from the department chair.

History

HIST 117 – Civilizations and Ideas I

Credits: 3

Survey of the development of major world civilizations to the eighteenth century, including the origins and history of ideas, worldviews, and institutions (Stoicism, Hinduism, Catholicism, etc.), with an emphasis on the interaction of cultures in the premodern world. **Delivery:** Interactive online option available **Grade Mode:** Normal (A-F,I,W) **Offering:** Fall **College Code:** CAS

HIST 117V – Civilizations and Ideas I

Credits: 3

Survey of the development of major world civilizations to the eighteenth century, including the origins and history of ideas, worldviews, and institutions (Stoicism, Hinduism, Catholicism, etc.), with an emphasis on the interaction of cultures in the premodern world. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A-F,I,W,DG,DN) **College Code:** CAS

HIST 118 – Civilizations and Ideas II

Credits: 3

Survey of the development of world civilizations from the eighteenth century, including the origins and history of ideas, worldviews, and institutions (nationalism, anti-Semitism, racism, multiculturalism, etc.), with emphasis on cultural diversity and interaction and their meaning in the modern and post-modern world. **Delivery:** Interactive online option available **Grade Mode:** Normal (A-F,I,W) **Offering:** Spring **College Code:** CAS

HIST 118V – Civilizations and Ideas II

Credits: 3

Survey of the development of world civilizations from the eighteenth century, including the origins and history of ideas, worldviews, and institutions (nationalism, anti-Semitism, racism, multiculturalism, etc.), with emphasis on cultural diversity and interaction and their meaning in the modern and post-modern world. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A-F,I,W,DG,DN) **College Code:** CAS

HIST 204 – American Experience I

Credits: 3

A study of the rise and development of the United States from European contact with the Americas through the Civil War. Emphasis placed on cultural, religious, ethnic, and other social issues as well as politics, economics, and foreign relations. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

HIST 204V – American Experience I

Credits: 3

A study of the rise and development of the United States from European contact with the Americas through the Civil War. Emphasis placed on cultural, religious, ethnic, and other social issues as well as politics, economics, and foreign relations. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

HIST 205 – American Experience II

Credits: 3

A study of the development of the United States from Reconstruction to the present. Emphasis placed on cultural, religious, ethnic, and other social issues as well as politics, economics, and foreign relations. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

HIST 205V – American Experience II

Credits: 3

A study of the development of the United States from Reconstruction to the present. Emphasis placed on cultural, religious, ethnic, and other social issues as well as politics, economics, and foreign relations. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

HIST 277 – History Colloquium

Credits: 0

Current topics and issues of interest to historians and political scientists. Required each semester of all students majoring in history, political science, or social studies. Weekly: 1 lecture or activity **Grade Mode:** Satisfactory (S,U,I,W) **Repeatable:** Repeatable **College Code:** CAS

HIST 290 – Research Seminar

Credits: 3

Introduction to historical research methodology, including both bibliographical searches and critical evaluation of sources. Requires the writing of a research paper using primary sources. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

HIST 316 – History of the Christian Church I

Credits: 3

Surveys the internal and external developments and conflicts which Christianity has experienced from the time of Christ up to the Reformation. Special attention given to those developments that relate to Seventh–day Adventist theological heritage. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** HIST 117 or permission of instructor. **Offering:** Fall **College Code:** CAS

HIST 316V – History of the Christian Church I

Credits: 3

Surveys the internal and external developments and conflicts which Christianity has experienced from the time of Christ up to the Reformation. Special attention given to those developments that relate to Seventh–day Adventist theological heritage. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

HIST 317 – History of the Christian Church II

Credits: 3

Surveys the history of the church from the Protestant Reformation to the current time. Special attention is given to the Protestant Reformation, the Catholic counter–reformation, Puritanism, Rationalism, Evangelicalism, the rise of modern denominations, and worldwide mission expansion and ecumenism. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** HIST 118 or permission of instructor. **Offering:** Spring **College Code:** CAS

HIST 317V – History of the Christian Church II

Credits: 3

Surveys the history of the church from the Protestant Reformation to the current time. Special attention is given to the Protestant Reformation, the Catholic counter–reformation, Puritanism, Rationalism, Evangelicalism, the rise of modern denominations, and worldwide mission expansion and ecumenism. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

HIST 320 – Economic History of the United States

Credits: 3

A survey of the United States' growth and transformation into an industrialized nation. Economic analysis is used to explain the sources and consequences of the U.S. economic change. Topics covered include the rise of the corporation, the emergence of a national market, financial development, slavery, government regulation, transportation, the Great Depression, and rapid post–World War II growth. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 378 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee may apply **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable **College Code:** CAS

HIST 404 – Adventist Heritage

Credits: 3

A study of the background and development of the Seventh–day Adventist denomination from its beginnings in the Millerite Movement to its present global impact. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

HIST 404V – Adventist Heritage

Credits: 3

A study of the background and development of the Seventh–day Adventist denomination from its beginnings in the Millerite Movement to its present global impact. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

HIST 414 – Renaissance and Reformation, 1300–1648

Credits: 3

pects of the Renaissance and the religious, political, social, and intellectual aspects of the Protestant Reformation. Special emphasis is given to church–state relations and the struggle for religious toleration from 1517–1650. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 415 – Absolutism and Enlightenment, 1648–1789

Credits: 3

The rise of absolute monarchies and their impact on political, social, economic, and intellectual developments of early modern Europe. Special emphasis is given to church–state relations and the struggle for religious liberty from 1650–1789. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 420 – Revolutions and Reaction, 1789–1917

Credits: 3

The religious and social transformation of Europe during the French Revolution, the Napoleonic era, the political revolutions of the nineteenth century, the industrial revolution, the First World War, and the Russian Revolution. Special attention is given to such ideologies as nationalism, anti–Semitism, and Marxism. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 425 – Nationalism and World Wars, 1914–Present

Credits: 3

A study of European society, including the role of the Christian church, during the two world wars and the Cold War as influenced by Nazism, Stalinism, Western democracy, and the emerging “new world order.” Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 434 – From Discovery to Nation, 1492–1789

Credits: 3

A study of the political, economic, and social development of America from discovery to 1789. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 435 – Union and Disunion, 1789–1865

Credits: 3

Examines major events and developments through the lenses of religion, race, gender, class and culture. Emphasis is given to disestablishment of the churches, concepts of democracy, slavery, westward expansion, and the Civil War. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 437 – Topics:

Credits: 3

A study of selected topics in history as announced in the class schedule. May be repeated with different topics. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

HIST 450 – The Holocaust and Society

Credits: 3

An inquiry into anti-Semitism and Nazism with special attention to the Holocaust and the role of the Christian Church. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 458 – The Emergence of Modern America, 1865–1939

Credits: 3

Examines major events and developments through the lenses of religion, race, gender, and class and their impact on the individual's place in American society. Topics include religious pluralism and its social implications, Reconstruction, the industrial revolution, social and political reform, expansionism, World War I, and the Great Depression. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 459 – Special Methods in Teaching History and Social Studies

Credits: 3

A practicum taken prior to student teaching. Emphasizes methods, materials, and techniques of teaching history, geography, and social studies in grades 7–12. Required of students seeking secondary certification in history or social studies. Does not apply to a minor in history. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** EDTE 459. **Offering:** Fall **College Code:** CAS

HIST 468 – Multi-cultural America

Credits: 3

An examination of immigration and the historical experience of ethnic minority groups in the United States, including their development as subcultures and interactions with the dominant society. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 469 – America as a World Power, 1939–Present

Credits: 3

An examination of issues of national consciousness and cultural identity within major topics of the period such as World War II, the Cold War, Vietnam, the Civil Rights movement, Watergate, and various contemporary issues. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

HIST 480 – Senior Seminar

Credits: 3

A capstone course for the history major normally taken during the senior year, including the reading of classic works of history, the presentation of a portfolio of the student's writing, and a departmental comprehensive oral examination. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

HIST 488 – Faith and History

Credits: 3

A study of the major philosophies of history and contemporary theoretical issues in the discipline with emphasis upon implications for a Christian understanding of history. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Course Attribute:** Service course **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

HIST 495 – Independent Study/Readings/Research

Credits: 1–3

Individually directed study, readings, or research in selected areas of history under the guidance of the appropriate instructor. Limited to majors and minors in history and social studies. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 3 credits with different topics **Special Approval:** Instructor permission required. **Offering:** Fall, Spring **College Code:** CAS

HIST 578 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee may apply **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

HIST 590 – Independent Readings

Credits: 1–2

Individual reading in a specified area under the guidance of an instructor. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **Offering:** Fall, Spring **College Code:** CAS

HIST 650 – Historical Method and Research

Credits: 3

Examination of historical research methodology, including bibliographical searches, critical evaluation of sources, documentation style, and written and oral presentation of research. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PHIL 224 – Introduction to Philosophy

Credits: 3

An introduction to basic philosophical issues, including the relationship of faith and reason, epistemology, the mind-body problem, determinism and free will, and ethics. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

PHIL 320 – Critical Thinking

Credits: 3

Designed to encourage independent thinking and to teach analytical and logical skills necessary for problem solving as well as understanding and evaluating the ideas and claims of others. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 3 credits **Offering:** Alternate years **College Code:** CAS

Political Science

PLSC 104 – American Government

Credits: 3

A study of American political institutions and behavior, primarily on the national level. May be applied to the history major. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring **College Code:** CAS

PLSC 104V – American Government

Credits: 3

A study of American political institutions and behavior, primarily on the national level. May be applied to the history major. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

PLSC 120 – Analyzing Politics

Credits: 3

An introduction to political science designed to develop critical thinking skills and apply those skills to the analysis of politics. Topics examined include concepts of power, authority, political ideology, and the structures and processes of political systems. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, alternate years **College Code:** CAS

PLSC 225 – Comparative Politics

Credits: 3

An introduction to the general theories and methods of comparative politics through case studies of both advanced industrialized and developing countries. Examines a variety of governmental structures and analyzes their historical emergence, natures, forms, and dynamics. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 230 – International Relations

Credits: 3

This course provides a general introduction to the study and practice of international relations, including the roles played by nation states, international organizations, international law, power, morality, globalization, and terrorism. Special emphasis will be placed on alternative theories and models that have been employed in the study and practice of international relations from classical antiquity to the present. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 237 – The Individual, State, and Marketplace

Credits: 3

An introduction to international political economy, which examines the interactions between international politics and international economics. Beginning with an introduction to the primary theories guiding international political economy, topics studied include international capital markets, global and regional trade, monetary policy, global finance, and the effects of these issues on domestic politics. Not applicable to the political science major or minor. Applies to the General Education Social Science requirements. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PLSC 260 – Introduction to American Law

Credits: 3

A study of the roles that law and the legal system play in American life. Topics include: the constitution, civil rights, property, employment, consumer protections, criminal punishment and judicial activism/restraint. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 277 – Political Science Colloquium

Credits: 0

Current topics and issues of interest to historians and political scientists. Required each semester of all students majoring in history, political science, or social studies. Weekly: 1 lecture or activity **Grade Mode:** Satisfactory (S,U,I,W) **Repeatable:** Repeatable **College Code:** CAS

PLSC 298 – Research Seminar

Credits: 3

Introduction to political science research methodology, including bibliographical searches, critical evaluation of sources, surveys, and application of statistical data. Requires the writing of a paper based on original research. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

PLSC 316 – Legal Writing and Rhetoric

Credits: 3

An introduction to academic and professional writing, particularly argument and analysis, as they relate to the law, including theoretical and practical applications. Assignment will include pleadings, briefs, and memoranda. Students will also develop a philosophical and rhetorical understanding of their function as writers in relation to the law and the legal system. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

PLSC 326 – American Political Institutions: Judiciary

Credits: 3

Course covers the structure of the United States legal system. This includes an examination of the roles of law enforcement, lawyers, and judges; as well as the structure of courts and appointment process for judges, the legal system, the court system, and the judicial decision making. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PLSC 327 – American Political Institutions: Presidency

Credits: 3

Course covers the basic approaches to the study of the presidency, the nomination and election process, the role of the president in policymaking and his/her relationship to other governmental institutions, as well as theories of presidential leadership and power. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PLSC 328 – American Political Institutions: Congress

Credits: 3

Course covers the history and structure of the U.S. Congress from its beginnings, the process of congressional elections, the differences between the House of Representatives and the Senate in terms of legislative processes, constitutional responsibilities, decision making process, committees and leadership structures. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PLSC 329 – American Political Institutions: Bureaucracy

Credits: 3

Course covers the historical development of U.S. government bureaucracies, their function, and jurisdiction. It also covers command and control over policies and decision making processes, as well as bureaucratic behavior at the individual and agency level. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PLSC 350 – State and Local Government

Credits: 3

An examination of politics at the state, county and municipal levels in the United States. Consideration is given to the changing relationship between state and local government and the federal government with emphasis on Michigan state and local governments as a case study. Topics include state–federal relations, state legislatures and executives, state–local relations, and structures of local government. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 365 – American Foreign Relations

Credits: 3

A study of the formation and conduct of American diplomacy in the light of major themes, including the diplomacy of human rights, globalization, and the American relationship with Islamic states. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 378 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee may apply **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable **College Code:** CAS

PLSC 410 – Comparative Political Theory and Method

Credits: 3

An introduction to the concepts and theories that form the basis of comparative political theory and comparative political research methods. Topics include comparative inquiry, ideology, theories of the state, democratic development, and the welfare state. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PLSC 225 or PLSC 230. **Offering:** Alternate years **College Code:** CAS

PLSC 420 – Human Rights, Violations, and Reconciliations

Credits: 3

An interdisciplinary approach to concepts of human rights within western and non-western traditions. Evaluates legal and political instruments that address human rights and examine the meaning and relevance of these rights to such contemporary issues as torture, political repression, war crimes, genocide, and refugees. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 435 – Public Policy

Credits: 3

An introduction to the theories and methods used by comparativists to study public policies. Topics include policy variations and similarities in education, health, social security, economics, taxation and environmental policy. Examines the interaction between policy development and institutions and various theoretical models of policy making. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 437 – Topics:

Credits: 3

A study of selected topics in political science as announced in the class schedule. May be repeated with different topics. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

PLSC 456 – Classical, Medieval and Early Modern Political Thought

Credits: 3

A study of the great political ideas from antiquity to early modern times through a consideration of thinkers such as Plato, Aristotle, Aquinas, Machiavelli, Hobbes and Locke. The course explores such issues as human nature, the good life, freedom, justice, and authority as understood by pre-modern and early modern theorists. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 457 – Modern Political Thought

Credits: 3

Explores major political ideas from the eighteenth century to the present. Writers discussed typically include Rousseau, Kant, Hegel, Marx, Nietzsche, Heidegger and Leo Strauss. Central topics include the abandonment of natural right; the turn to history as a standard of right; and the subsequent self-destruction and recovery of reason (and revelation) in late modern political thought. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 458 – American Political Thought

Credits: 3

An examination of American political thought from the revolutionary period to the present. Required readings are drawn mainly from primary sources including the Declaration of Independence, the U.S. Constitution, the Federalist, and the writings of statesmen and theorists from the Civil War era, Progressive movement, New Deal and contemporary politics. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 460 – Area Study:

Credits: 3

Study of the government and politics of individual nations (for example, India) or geographical regions (for example, Asia), as announced in the course schedule. Examines process, forces, and trends in the nation's/region's politics as it addresses societal needs and economic development. May be repeated with a different emphasis. May be applied to the history major. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **Offering:** Alternate years **College Code:** CAS

PLSC 490 – Internship

Credits: 1–6

Students work part- or full-time with government agencies, elected government officials, political campaigns, private interest groups, or NGOs. A minimum of 60 clock hours of work experience are required for each semester hour of credit. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Prerequisite(s):** at least junior standing and consent of the department. May not be applied to the political science minor. **Repeatable:** Repeatable up to 6 credits **Offering:** Fall, Spring **College Code:** CAS

PLSC 495 – Independent Study/Readings/Research

Credits: 1–3

Individually directed study, readings, or research under the guidance of the instructor. Limited to students with majors in political science or social studies or a minor in political science. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 4 credits with different topics **Special Approval:** Instructor permission required. **Offering:** Fall, Spring **College Code:** CAS

PLSC 525 – Public Policy, Civil Society and Development

Credits: 2–3

Governments are pressed to address issues of individual and collective concern. Resolving matters may demand the creation of programs and governmental policies, modification of existing ones or termination of current policy. Utilizing a case study approach, this course considers the essential phases of policymaking on behalf of civil society. Taught only for the off-campus MIDA degree. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PLSC 578 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee may apply **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

PLSC 580 – Seminar in Comparative Politics

Credits: 3

A study of general theories and methods of comparative politics through case studies of both advanced industrialized and developing countries. Examines a variety of governmental structures and analyzes their historical emergence, natures, forms and dynamics. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PLSC 585 – Seminar in International Relations

Credits: 3

An examination of the study and practice of international relations, including the roles played by nation states, international organizations, international law, power, morality, globalization and terrorism. Special emphasis will be placed on alternative theories and models that have been employed in the study and practice of international relations from classical antiquity to the present. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

International Language Studies

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Faculty

Pedro A. Navia, *Chair*
Sonia Badenas
Elaine J. Navia
Ruben Perez-Schulz

Emeriti

Wolfgang Kunze
Eduardo Ocampo

Mission

The Department of International Language Studies strives to develop students' knowledge of foreign languages and cultures in a Christian environment. It provides a broad range of educational courses and programs that build foreign language competence and enhance the understanding of foreign literatures and cultures. The department not only helps students develop a global perspective by training them to use their foreign language skills in a variety of fields, but also to develop critical understanding of world culture in its complexity and diversity, supporting and promoting Christ's appeal to this generation, "And this gospel of the kingdom will be preached in all the world as a witness to all the nations, and then the end will come."

The department provides students with communicative competence in a second language, promotes a greater understanding of and appreciation for the significance of language in human interaction, fosters interest in other cultures, and encourages intellectual development through enhanced cognitive and analytical skills.

The department offers many opportunities for language students to enhance an appreciation of other cultures and to develop fluency in the use of another language by participating in the Adventist Colleges Abroad (ACA) programs, language clubs, the National Language Honor Society, and religious activities.

Departmental Tours

The Department of International Language Studies offers two study tours: Europe and South America. Each tour is equivalent to six credits that count towards majors and minors. The South American tour may be taken only as Portuguese and Spanish credits; the European tour can be taken as French or Spanish credits. A maximum of 6 tour credits may be applied to the major or minor for students participating in the ACA program. All courses included in the tour are taught in the target language. Andrews University policies apply to the tour.

Bachelors

French for International Trade BA

This program integrates the study of international languages and cultures with preparation in international trade and business.

The objective of this major is to prepare students for international careers with the necessary business and language skills. Students in French participate in an internship in a business/industrial work environment either in the U.S. or abroad where French is spoken. Students may take examinations leading to certification in Business French. See details below. The major consists of study in the following three areas: (1) specialized studies in language, (2) business and economics, and (3) required cognates.

Specialized Studies in French—30

All majors are required to attend a full academic year, excluding summer sessions, at the Adventist University of France, Collonges, France.

ACA Courses—9

- FREN321
- FREN341
- FREN351
- FREN361

AU Courses—21

- FREN 275 – Intermediate French Credits: 4
- FREN 366 – French Conversation Credits: 3
- FREN 367 – French Composition Credits: 3
- FREN 415 – Advanced French Communication Credits: 3
- FREN 420 – Francophone Cultures: The New World and the Third World Credits: 3 **or**
- FREN 430 – Contemporary French Culture and Society Credits: 3
- FREN 460 – French for International Trade Credits: 3
- INLS 490 – Language and International Trade Internship/Practicum Credits: 3
- remaining FREN/INLS credits to complete 30 credits

Note:

Language proficiency exit exam required.

Business and Economics—24

- ACCT 121 – Fundamentals of Accounting Credits: 3
- ACCT 122 – Fundamentals of Accounting Credits: 3
- BSAD 355 – Management and Organization Credits: 3
- BSAD 365 – International Environment of Business Credits: 3
- BSAD 450 – Multicultural Business Relations Credits: 3 **or**
- BSAD 467 – International Management Credits: 3
- ECON 226 – Principles of Microeconomics Credits: 3
- FNCE 317 – Business Finance Credits: 3
- MKTG 310 – Principles of Marketing Credits: 3

Required Cognates—6

- ECON 225 – Principles of Macroeconomics Credits: 3
- MKTG 465 – International Marketing Credits: 3 **or**
- ECON 454 – International Economics Credits: 3

Note:

No more than 30 credits from the School of Business Administration can apply to the degree.

Total Credits: 54

French for K–12 Education BA

This degree is for students seeking elementary or secondary teaching certification. All majors are required to attend a full academic year, excluding summer sessions, at the Adventist University of France, Collonges, France.

ACA Courses—21–24

- FREN321
- FREN341
- FREN351
- FREN361
- electives the equivalent of 12–15 FREN semester credits from 300–level and above.

AU Courses—12

- FREN 401 – Fundamentals of Translation Credits: 3 **or**
- FREN 402 – French for Interpreters Credits: 3
- FREN 415 – Advanced French Communication Credits: 3
- FREN 420 – Francophone Cultures: The New World and the Third World Credits: 3 **or**

- FREN 430 – Contemporary French Culture and Society Credits: 3
- INLS 458 – Methods of Foreign Language Instruction: K–12 Credits: 3

Electives:

Remaining FREN/INLS credits at the upper division level to complete 36 credits. Language proficiency exit exam required.

Note:

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree, see the department of Teaching, Learning & Curriculum

Total Credits: 36

French Studies BA

All majors are required to attend a full academic year, excluding summer sessions, in the Adventist Colleges Abroad program at the Adventist University of France, Collonges, France. This requirement may be waived for native speakers or candidates who have spent an extended period of time in a French-speaking country.

ACA Courses—18

- FREN321
- FREN341
- FREN351
- FREN361
- FREN electives the equivalent of 9 semester credits from 300-level and above

AU Courses—18

- FREN 275 – Intermediate French Credits: 4 (or ACA equivalent)
- FREN 280 – French Conversation and Composition Credits: 3
- FREN 401 – Fundamentals of Translation Credits: 3 **or**
- FREN 402 – French for Interpreters Credits: 3
- FREN 415 – Advanced French Communication Credits: 3
- FREN 420 – Francophone Cultures: The New World and the Third World Credits: 3 **or**
- FREN 430 – Contemporary French Culture and Society Credits: 3
- Plus 2 credits of electives

Additional Requirement:

A language proficiency exit exam required.

Total Credits: 36

Spanish and International Business, BA/BBA

Spanish and International Business

This joint degree in Spanish and International Business (FSIB) is a double degree for undergraduates planning to enter a career in international business. The FSIB-joint degree provides students with both practical, on-site work experience and a thorough academic background in international affairs.

Students in the Spanish and International Business program receive two separate but integrated degrees: a Bachelor of Business Administration with a major in management and a Bachelor of Arts in Spanish for International Trade. The Spanish for International Trade major trains students in language and culture for business and professional positions.

Students additionally may take examinations leading to certification in business Spanish.

All FSIB-joint-degree students participate in an internship in a business/industrial work environment. The goal is to place qualifying students abroad where they can use their language and business skills in an international professional environment. Students who do not go abroad are placed regionally

and work one or two semesters for an employer in a staff support or administrative capacity.

The program is designed so that students can complete the 143-credit program in 10 semesters.

Specialized Studies in Spanish—30

All majors are required to attend a full academic year at Colegio Adventista de Sagunto, Spain, or Universidad Adventista del Plata, Argentina.

ACA Courses—6

Advanced Grammar

One of

- SPAN351
- SPAN352
- SPAN353
- SPAN451
- SPAN452
- SPAN453

Advanced Composition

One of

- SPAN361
- SPAN362
- SPAN363
- SPAN461
- SPAN462
- SPAN463

Advanced Conversation

One of

- SPAN371
- SPAN372
- SPAN373
- SPAN471
- SPAN472
- SPAN473

AU Courses—24

- SPAN 280 – Spanish Conversation and Composition Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish-American Culture Credits: 3
- SPAN 416 – Spanish for Native Speakers Credits: 3 **or**
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3
- SPAN 470 – Spanish for International Trade Credits: 3
- SPAN 488 – Spanish for International Relations Credits: 3
- INLS 490 – Language and International Trade Internship/Practicum Credits: 3
- INLS 495 – Directed Study/Readings/Research/Project Credits: 1–3
- remaining SPAN/INLS credits to complete 30 credits.

Note:

Language proficiency exit exam required.

Business Core and Business Major with Cognate—69

Business Core—39

- ACCT 121 – Fundamentals of Accounting Credits: 3
- ACCT 122 – Fundamentals of Accounting Credits: 3
- BSAD 355 – Management and Organization Credits: 3
- BSAD 365 – International Environment of Business Credits: 3
- BSAD 475 – Operations Management Credits: 3

- BSAD 494 – Business Strategy and Decisions Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- ECON 226 – Principles of Microeconomics Credits: 3
- FNCE 317 – Business Finance Credits: 3
- INFS 120 – Foundations of Information Technology Credits: 3
- INFS 215 – Information Systems Theory and Application Credits: 3
- MKTG 310 – Principles of Marketing Credits: 3

Business Major—27

- BSAD 345 – Business and Society Credits: 3
- BSAD 384 – Human Resource Management Credits: 3
- BSAD 410 – Entrepreneurship Credits: 3
- BSAD 450 – Multicultural Business Relations Credits: 3
- BSAD 467 – International Management Credits: 3

Group A—3

One of

- FNCE 426 – International Finance Credits: 3
- ECON 427 – Economic Development Credits: 3
- ECON 454 – International Economics Credits: 3

Group B—9

- MKTG 465 – International Marketing Credits: 3
- INLS 490 – Language and International Trade Internship/Practicum Credits: 3
- INLS 495 – Directed Study/Readings/Research/Project Credits: 1–3

Cognate:—3

- STAT 285 – Elementary Statistics Credits: 3

Total Credits: 152

Spanish for International Trade BA

This program integrates the study of the Spanish language and culture with preparation in international trade and business. The objective of this major is to prepare students for international careers with the necessary business and language skills. Students in Spanish participate in an internship in a business/industrial work environment either in the U.S. or abroad where Spanish is spoken. Students may take examinations leading to certification in Business Spanish. See details below. The major consists of study in the following three areas: (1) specialized studies in language, (2) business and economics, and (3) required cognates. All majors are required to attend a full academic year, excluding summer sessions, at Colegio Adventista de Sagunto, Spain, or Universidad Adventista del Plata, Argentina.

Specialized Studies in Spanish—30

ACA Courses—6

Advanced Grammar

One of the following courses:

- SPAN 351, 352, 353, 451, 452, 453

Advanced Composition

One of the following courses:

- SPAN 361, 362, 363, 461, 462, 463

Advanced Conversation

One of the following courses:

- SPAN 371, 372, 373, 471, 472, 473

AU Courses—24

- SPAN 275 – Intermediate Spanish Credits: 4

- SPAN 280 – Spanish Conversation and Composition Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish–American Culture Credits: 3

- SPAN 416 – Spanish for Native Speakers Credits: 3 **or**
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3

- SPAN 470 – Spanish for International Trade Credits: 3
- SPAN 488 – Spanish for International Relations Credits: 3

Note:

Language proficiency exit exam required.

Business and Economics – 24

- ACCT 121 – Fundamentals of Accounting Credits: 3
- ACCT 122 – Fundamentals of Accounting Credits: 3
- BSAD 355 – Management and Organization Credits: 3
- BSAD 365 – International Environment of Business Credits: 3

- BSAD 450 – Multicultural Business Relations Credits: 3 **or**
- BSAD 467 – International Management Credits: 3

- ECON 226 – Principles of Microeconomics Credits: 3
- FNCE 317 – Business Finance Credits: 3
- MKTG 310 – Principles of Marketing Credits: 3

Required Cognates – 6

- ECON 225 – Principles of Macroeconomics Credits: 3

- MKTG 465 – International Marketing Credits: 3 **or**
- ECON 454 – International Economics Credits: 3
- No more than 30 credits from the School of Business Administration can apply to the degree.

Spanish for K–12 Education BA

This degree is for students seeking elementary or secondary teaching certification. All majors are required to attend a full academic year, excluding summer sessions, in the Adventist Colleges Abroad program at Colegio Adventista de Sagunto, Spain, or Universidad Adventista del Plata, Argentina.

ACA Courses—21–24

Advanced Grammar

One of the following courses:

- SPAN 351, 352, 353, 451, 452, 453

Advanced Composition

One of the following courses:

- SPAN 361, 362, 363, 461, 462, 463

Advanced Conversation

One of the following courses:

- SPAN 371, 372, 373, 471, 472, 473

Note:

Electives the equivalent of 15–18 SPAN semester credits at 300–level or above

AU Courses—12–15

- SPAN 416 – Spanish for Native Speakers Credits: 3 **or**
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3

- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish–American Culture Credits: 3

- SPAN 447 – Spanish for Translation Credits: 3 **or**
- SPAN 449 – Spanish for Interpreters Credits: 3

- INLS 458 – Methods of Foreign Language Instruction: K–12 Credits: 3
- remaining SPAN/INLS credits at the upper division level to complete 36 credits.

Note:

Language proficiency exit exam required.

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree, see the department of Teaching, Learning & Curriculum.

Spanish for Translation BA

Track 1:

(On-campus program—*only available to native speakers*)

- SPAN 275 – Intermediate Spanish Credits: 4
- SPAN 280 – Spanish Conversation and Composition Credits: 3
- SPAN 325 – Spanish for the Medical Professions Credits: 3
- SPAN 405 – Spanish Grammar Review Credits: 1
- SPAN 416 – Spanish for Native Speakers Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3
- SPAN 436 – Spanish–American Culture Credits: 3
- SPAN 447 – Spanish for Translation Credits: 3
- SPAN 449 – Spanish for Interpreters Credits: 3
- SPAN 457 – Spanish Media Translation Credits: 3
- SPAN 470 – Spanish for International Trade Credits: 3
- INLS 400 – Topics in _____ Credits: 3
- SPAN/INLS credits to complete 36 credits

Note:

Language proficiency exit exam required.

Track 2:

(includes studies abroad) All majors are required to attend a full academic year, excluding summer sessions, in the Adventist Colleges Abroad program at Colegio Adventista de Sagunto, Spain, or Universidad Adventista del Plata, Argentina.

ACA Courses—7

Choose one course from each of the following sets:

- SPAN 351, 352, 353, 451, 452, 453
- SPAN 361, 362, 363, 461, 462, 463
- SPAN 371, 372, 373, 471, 472, 473

AU Courses—29

- SPAN 325 – Spanish for the Medical Professions Credits: 3
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish–American Culture Credits: 3
- SPAN 447 – Spanish for Translation Credits: 3
- SPAN 449 – Spanish for Interpreters Credits: 3
- SPAN 457 – Spanish Media Translation Credits: 3
- SPAN 470 – Spanish for International Trade Credits: 3
- SPAN 488 – Spanish for International Relations Credits: 3
- INLS 400 – Topics in _____ Credits: 3
- remaining SPAN/INLS credits to complete 36 credits

Note:

Language proficiency exit exam required.

Spanish Studies BA

Track 1:

(On-campus program—*only available to native speakers*)

- SPAN 275 – Intermediate Spanish Credits: 4
- SPAN 280 – Spanish Conversation and Composition Credits: 3
- SPAN 405 – Spanish Grammar Review Credits: 1
- SPAN 416 – Spanish for Native Speakers Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3
- SPAN 436 – Spanish–American Culture Credits: 3
- SPAN 438 – Mexico and Central American Culture Credits: 3
- SPAN 439 – Spanish Caribbean Culture Credits: 3
- SPAN 446 – Spanish and Latin American Drama Credits: 3
- SPAN 448 – Spanish and Latin American Literature and Film Credits: 3
- SPAN/INLS electives at the upper division level to complete 36 credits. Language proficiency exit exam required.

Track 2:

(It includes studies abroad). All majors are required to attend a full academic year, excluding summer sessions, in the Adventist Colleges Abroad program at Colegio Adventista de Sagunto, Spain, or Universidad Adventista del Plata, Argentina.

ACA Courses—18

Choose one course from each of the following sets:

- SPAN 351, 352, 353
- SPAN 361, 362, 363
- SPAN 371, 372, 373
- 400-level courses for Advanced II
- Electives at the 300-level to fulfill requirement

AU Courses—18

- SPAN 275 – Intermediate Spanish Credits: 4
- SPAN 280 – Spanish Conversation and Composition Credits: 3
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish–American Culture Credits: 3

Electives:

Remaining SPAN/INLS credits at the upper division level to complete 36 credits. Language proficiency exit exam required.

Spanish Studies/Speech–Language Pathology & Audiology BA/BS

Speech–Language Pathology and Audiology/Spanish Studies Joint Degree, BA/BS

Spanish Studies/Speech–Language Pathology and Audiology Joint Degree, BA/BS

This program integrates the study of the Spanish language and culture with preparation in the field of Speech–Language Pathology and Audiology. The main goal of this degree is to prepare students to serve in both a medical as well as in an educational setting. Students will participate in clinical practicum/internships in which they will have the opportunity to apply the knowledge acquired in classes. It is required that students attend to one of the ACA programs for a full year.

Students in this joint degree will receive two separate but integrated degrees: a Bachelor of Arts with a major in Spanish Studies and a Bachelor of Sciences with a major in Speech–Language Pathology and Audiology.

Total Credits – 140

Spanish Studies Requirements – 42

ACA Requirements – 18

Choose one course from each of the following sets:

- SPAN 351, 352, 353
- SPAN 361, 362, 363
- SPAN 371, 372, 373
- Plus 9 Spanish credits at the 300–400 level

AU Cognates – 6

Choose one of the following sets:

- SPAN 171 – Elementary Spanish I Credits: 3
- SPAN 172 – Elementary Spanish II Credits: 3
- SPAN 275 – Intermediate Spanish Credits: 4

AU Requirements – 18

- SPAN 325 – Spanish for the Medical Professions Credits: 3
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3
- SPAN 426 – Contemporary Spain Credits: 3
- SPAN 436 – Spanish–American Culture Credits: 3
- SPAN 447 – Spanish for Translation Credits: 3
- SPAN 449 – Spanish for Interpreters Credits: 3
- SPAN 456 – Spanish for Speech Pathologists and Audiologists Credits: 3

Speech–Language Pathology & Audiology Requirements – 45

- SPPA 234 – Introduction to Speech–Language Pathology and Audiology Credits: 3
- SPPA 270 – Preclinical Observation Credits: 1
- SPPA 280 – Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 – Applied Phonetics Credits: 3
- SPPA 310 – Speech Science Credits: 3
- SPPA 321 – Normal Language Development Credits: 3
- SPPA 322 – Child Language Disorders Credits: 3
- SPPA 331 – Basic Audiology Credits: 3
- SPPA 332 – Audiological Procedures Credits: 3
- SPPA 374 – Articulation and Phonology: Development and Disorders Credits: 3
- SPPA 425 – Clinical Principles and Practices Credits: 3
- SPPA 447 – Disorders of Voice and Fluency Credits: 3
- SPPA 455 – Adult Neurogenic Disorders Credits: 3
- SPPA 458 – Aural Rehabilitation Credits: 3
- SPPA 471 – Clinical Practicum in Speech–Language Pathology Credits: 2
- SPPA 472 – Clinical Practicum in Audiology Credits: 2

General Education Requirements BA/BS

For General Education requirements follow the General Education Professional Program

Bachelors Dual Degrees

French and International Business, BA/BBA

French and International Business

This joint degree in French and International Business (FSIB) is a double degree for undergraduates planning to enter a career in international business. The FSIB–joint degree provides students with both practical, on–site work experience and a thorough academic background in international affairs.

Students in the French and International Business program receive two separate but integrated degrees: a Bachelor of Business Administration with a major in management and a Bachelor of Arts in French for International Trade. The French for International Trade major trains students in language and culture for business and professional positions.

Students additionally may take examinations leading to certification in business French.

All FSIB–joint–degree students participate in an internship in a business/industrial work environment. The goal is to place qualifying students abroad where they can use their language and business skills in an international

professional environment. Students who do not go abroad are placed regionally and work one or two semesters for an employer in a staff support or administrative capacity.

The program is designed so that students can complete the 143–credit program in 10 semesters.

Specialized Studies in French—30

All majors are required to attend a full academic year, excluding summer sessions, at the Adventist University of France, Collonges, France.

ACA Courses—9

- FREN321
- FREN341
- FREN351
- FREN361

AU Courses—21

- FREN 366 – French Conversation Credits: 3
- FREN 367 – French Composition Credits: 3
- FREN 415 – Advanced French Communication Credits: 3
- FREN 420 – Francophone Cultures: The New World and the Third World Credits: 3 **or**
- FREN 430 – Contemporary French Culture and Society Credits: 3
- FREN 460 – French for International Trade Credits: 3
- INLS 490 – Language and International Trade Internship/Practicum Credits: 3
- INLS 495 – Directed Study/Readings/Research/Project Credits: 1–3
- remaining FREN/INLS credits to complete 30 credits.

Note:

Language proficiency exit exam required.

Business Core and Business Major with Cognate—69

Business Core—39

- ACCT 121 – Fundamentals of Accounting Credits: 3
- ACCT 122 – Fundamentals of Accounting Credits: 3
- BSAD 341 – Business Law Credits: 3
- BSAD 355 – Management and Organization Credits: 3
- BSAD 365 – International Environment of Business Credits: 3
- BSAD 475 – Operations Management Credits: 3
- BSAD 494 – Business Strategy and Decisions Credits: 3
- ECON 225 – Principles of Macroeconomics Credits: 3
- ECON 226 – Principles of Microeconomics Credits: 3
- FNCE 317 – Business Finance Credits: 3
- INFS 120 – Foundations of Information Technology Credits: 3
- INFS 215 – Information Systems Theory and Application Credits: 3
- MKTG 310 – Principles of Marketing Credits: 3

Business Major—27

- BSAD 345 – Business and Society Credits: 3
- BSAD 384 – Human Resource Management Credits: 3
- BSAD 410 – Entrepreneurship Credits: 3
- BSAD 450 – Multicultural Business Relations Credits: 3
- BSAD 467 – International Management Credits: 3

Group A—3

One of

- FNCE 426 – International Finance Credits: 3
- ECON 427 – Economic Development Credits: 3
- ECON 454 – International Economics Credits: 3

Group B—9

- MKTG 465 – International Marketing Credits: 3
- INLS 490 – Language and International Trade Internship/Practicum Credits: 3
- INLS 495 – Directed Study/Readings/Research/Project Credits: 1–3

Cognate:—3

- STAT 285 – Elementary Statistics Credits: 3

Total Credits: 152

Undergraduate Minors

French for Education Minor

For students seeking elementary or secondary teacher certification. One semester, or summer session, of advanced courses in France through ACA is required or take a challenge exam in advanced grammar, composition and conversation courses.

Total Credits: 21

ACA Courses—9

fall/spring option

- FREN321
- FREN341
- FREN351
- FREN361

summer option

- FREN322
- FREN342
- FREN352
- FREN362

AU Courses—12

- INLS 458 – Methods of Foreign Language Instruction: K–12 Credits: 3
- FREN 415 – Advanced French Communication Credits: 3

Choose one course from each of the following sets:

- FREN 401 – Fundamentals of Translation Credits: 3 **or**
- FREN 402 – French for Interpreters Credits: 3
- FREN 420 – Francophone Cultures: The New World and the Third World Credits: 3 **or**
- FREN 430 – Contemporary French Culture and Society Credits: 3
- remaining FREN/INLS upper division credits to complete 24 credits.

Note:

For more information regarding Teacher Certification with a minor see the department of Teaching, Learning & Curriculum

French Minor

One semester, or summer session, of intermediate or advanced courses in France through ACA is required.

ACA Courses—8

Fall/spring option

Choose one set of courses:

- FREN 221, 231, 251, 261
- FREN 321, 341, 351, 361

Summer option

Choose one set of courses:

- FREN 202, 222, 232, 252, 262
- FREN 322, 332, 342, 352, 363

AU Courses—16

- FREN 171 – Elementary French I Credits: 3
- FREN 172 – Elementary French II Credits: 3
- FREN 275 – Intermediate French Credits: 4 (or ACA equivalent)
- 6 upper division elective credits from FREN/INLS courses

German Minor

One semester of intermediate or advanced courses in Austria or Germany through ACA is required.

ACA Courses—12

Germany

Choose one course from each of the following sets:

- GRMN 208, 209,
- GRMN 235, 236
- GRMN 309, 310
- GRMN 318, 319
- GRMN 328, 329
- GRMN 388, 389

Austria

Choose one course from each of the following sets:

- GRMN 211, 212, 213
- GRMN 215, 216, 217
- GRMN 221, 222, 223
- GRMN 235, 236, 237
- GRMN 306, 307, 308
- GRMN 311, 312, 313

Note:

Remaining GRMN electives to complete 12 semester credits

AU Courses—12

- GRMN 181 – Elementary German I Credits: 3
- GRMN 182 – Elementary German II Credits: 3
- GRMN 415 – German Culture Credits: 3
- GRMN 425 – Contemporary German Credits: 3

Portuguese Minor

One semester of intermediate or advanced courses in Brazil through ACA is required.

ACA Courses—12

Choose one course from each of the following sets:

- PORT 251, 252
- PORT 261, 262
- PORT 271, 271
- One elective at the 300–level or higher

AU Courses—12

- PORT 171 – Elementary Portuguese I Credits: 3
- PORT 172 – Elementary Portuguese II Credits: 3
- PORT 420 – Portuguese Literature & Culture Credits: 3
- PORT 430 – Contemporary Brazilian Culture Credits: 3

Spanish for Education Minor

For students seeking elementary or secondary teacher certification. One semester of advanced courses in Spain or Argentina through ACA is required and take a challenge exam in advanced grammar, composition and conversation courses to complete this requirement.

ACA Courses—9

One course from each of the following sets:

- SPAN351, 352, 353
- SPAN361, 262, 363
- SPAN371, 372, 373

Note:

Electives the equivalent of 4 SPAN semester credits from 300– level and above.

AU Courses—12

- INLS 458 – Methods of Foreign Language Instruction: K–12 Credits: 3

Choose one course from each of the following sets:

- SPAN 416 – Spanish for Native Speakers Credits: 3 **or**
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3

- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish–American Culture Credits: 3

- SPAN 447 – Spanish for Translation Credits: 3 **or**
- SPAN 449 – Spanish for Interpreters Credits: 3

Note:

remaining SPAN/INLS upper division credits to complete 21 credits

For more information regarding Teacher Certification with a minor see the department of Teaching, Learning & Curriculum

Spanish Minor

One semester, or summer session, of intermediate or advanced courses in Argentina or Spain through ACA is required.

ACA Courses—8

Fall/spring options: (choose one course from each set)

- SPAN 251, 252, 253
- SPAN 261, 262, 263
- SPAN 271, 272, 273

- SPAN 351, 352, 353

Summer option: (choose one set of courses)

- SPAN 211, 212, 213

or

- SPAN 311, 350, 360, 370

AU Courses—16

- SPAN 171 – Elementary Spanish I Credits: 3
- SPAN 172 – Elementary Spanish II Credits: 3
- SPAN 275 – Intermediate Spanish Credits: 4 (or ACA equivalent)
- 6 upper division elective credits from SPAN/INLS courses

Masters

French/Spanish MAT

Master of Arts in Teaching

The Department of International Language Studies cooperates with the School of Education in offering the Master of Arts in Teaching degree to prepare teachers of French or Spanish for secondary schools.

Prerequisites

Admission to the program is open to applicants who earn a minimum of 20 semester credits in French or Spanish or equivalent. Deficiencies in the applicant's undergraduate program necessitate additional course work. Since the graduate courses are usually conducted in the target language, it is imperative that students comprehend and speak the language.

Degree Requirements

In addition to the general requirements for the MAT stated in the School of Education section of this bulletin, the following departmental requirements should be noted: For those entering the program with a major (30 semester hours), a total of at least 12 credits (language, literature, culture, or business) in French or Spanish is required, including a minimum of 6 credits at the INLS500–level. For those admitted with a minimum of 20 semester credits, a total of at least 18 credits (language, literature, culture or business) in French or Spanish is required, including a minimum of 6 credits at the INLS500–level.

Certificates

Business French Certificate

Andrews University is an approved examination center of the Paris Chamber of Commerce. Students may take the Diplome de Francais des Affaires I or II. These French diplomas, identical to the ones taken in France, are highly respected in the United States, Canada, France, and Europe. Students who succeed in obtaining the Diplome de Francais des Affaires I or II will be able to handle basic business tasks in a French setting.

Business Spanish Certificate

Andrews University is also an approved examination center for the Madrid Chamber of Commerce and Industry. Students may take the Examen de Español de Negocios and receive the Diploma or Certificate from the Chamber of Commerce and Industry of Madrid and the prestigious University of Alcalá de Henares. The purpose of this exam is to prove that students have an in–depth knowledge of the Spanish language and that they can work in any business–related field. The deadline for registration is February 15.

Spanish Translation/Interpretation Certificate

The Department of International Language Studies offers a Certificate in Spanish Translation/Interpretation. Students who wish to obtain the Certificate should demonstrate fluency in both English and Spanish.

Requirements for the Certificate:

- SPAN 325 – Spanish for the Medical Professions Credits: 3
- SPAN 420 – Advanced Spanish Written and Oral Communication Credits: 3

- SPAN 426 – Contemporary Spain Credits: 3 **or**
- SPAN 436 – Spanish–American Culture Credits: 3

- SPAN 447 – Spanish for Translation Credits: 3
- SPAN 449 – Spanish for Interpreters Credits: 3
- SPAN 470 – Spanish for International Trade Credits: 3
- SPAN 488 – Spanish for International Relations Credits: 3

Other Programs

Adventist Colleges Abroad Program

Andrews University, as a member institution, participates in the Adventist Colleges Abroad (ACA) program which gives North American students an opportunity to enhance their ability to use a foreign language and to experience a foreign culture while completing the requirements for a baccalaureate degree in the regular four–year period without losing credits or extending their courses of study.

The Adventist Colleges Abroad program offers a wide variety of courses in composition, phonetics, reading, literature, folklore, culture, business, and civilization. Other courses may be taken to fulfill General Education requirements. In addition, students participate in on–site guided field trips of geographic, historic, or economic significance.

Admission Requirements

- Admission as a student at Andrews University.
- Competence in the language at the intermediate level is recommended. However, applicants with two to three years of secondary or one year of elementary-level college language study may be admitted.
- GPA of 2.25 in the language and 2.00 overall.
- Good citizenship record
- Completion of ACA application with all required information and signatures (academic and financial arrangements).

Fulfilling Major/Minor Requirements.

Adventist Colleges Abroad students with majors or minors in a language are encouraged to take the required conversation, composition, civilization, and literature courses at the upper division level while studying abroad if their level of proficiency enables them to do so (see major requirements). Upon their return to Andrews University, students must take in residence the following minimum number of credits:

- For a language major: 12 upper division credits
- For a language minor: 6 upper division credits

These requirements apply to all students who spend a full school year abroad, including transfer students. Students should take a normal load of 16 credits each quarter or 12 credits per semester. Students also are encouraged to take as many General Education courses as possible.

Adventist Colleges Abroad Full-year Study Options

- Adventist University of France, Collonges-sous-Salève, France
- Centro Universitário Adventista de São Paulo, Brazil
- Colegio Adventista de Sagunto, Sagunto (Valencia), Spain
- Universidad Adventista del Plata, Entre Ríos, Argentina

Adventist Colleges Abroad Summer Program offers students an opportunity to take, during a six-week session, beginning-, intermediate-, or advanced-level courses in the following languages:

French

Adventist University of France
Collonges-sous-Salève, France

German

Seminar Schloss Bogenhofen, St. Peter am
Hart near Braunau Austria

Greek/Hebrew

Athens Study Center, Athens, Greece

Italian

Instituto Avventista Villa Aurora Florence, Italy

Portuguese

Centro Universitário Adventista, São Paulo, Brazil

Spanish

Colegio Adventista de Sagunto, Valencia, Spain
Universidad Adventista de Montemorelos, México
In addition to language study, students participate in on-site guided field trips of geographic, historic, or economic significance.

ACA Academic Year Courses

See the ACA bulletin for course descriptions. A minimum of C is required.

Argentina

(Quarter Credits)

- SPAN251, 252, 253 – Intermediate Spanish Grammar Credits: 4, 4, 4
- SPAN261, 262, 263 – Intermediate Spanish Composition Credits: 2, 2, 2
- SPAN271, 272, 273 – Intermediate Spanish Conversation Credits: 2, 2, 2
- SPAN351, 352, 353 – Advanced Spanish Grammar Credits: 4, 4, 4
- SPAN361, 362, 363 – Advanced Spanish Composition Credits: 2, 2, 2
- SPAN371, 372, 373 – Advanced Spanish Conversation Credits: 2, 2, 2
- SPAN451, 452, 453 – Advanced Spanish Grammar II Credits: 4, 4, 4
- SPAN461, 462, 463 – Advanced Spanish Composition II Credits: 2, 2, 2

- SPAN471, 472, 473 – Advanced Spanish Conversation II Credits: 2, 2, 2
- RELH/SPAN211 – Hist of the Church in South America Credits: 2
- RELH/SPAN313 – The Adventist Professional Credits: 2
- RELH/SPAN310 – Contemporary Religious Outlook Credits: 2
- SPAN/GEOG205/306 – Geography of Latin America Credits: 2/2
- SPAN232 – Phonetics Credits: 2
- SPAN240 – Orthography Credits: 1
- SPAN293 – Language Through Drama Credits: 1
- SPAN301, 302, 303 – Folklore of Argentina Credits: 2, 2, 2
- SPAN326, 327 – Translation & Interpretation Credits: 2, 2
- SPAN332, 333 – Latin American Literature Credits: 3, 3
- SPAN/HIST342, 343 – History of Argentina Credits: 2, 2
- SPAN381, 382 – Current Events in South America Credits: 1, 1
- SPAN422, 423 – Translation & Interpretation Credits: 2, 2
- SPAN495 – Independent Study Credits: 1–4
- MUPF126 – Private Lessons Credits: 1
- MUPF136 – Choir Credits: 1
- MUPF146 – Orchestra or Band Credits: 1
- MUPF156 – Ensemble Credits: 1

Austria

(Quarter Credits)

- GRMN101, 102, 103 – Beginning German Credits: 6, 6, 6
- GRMN111, 112, 113 – Elementary German Credits: 3, 3, 3
- GRMN121, 122, 123 – Elementary Phonetics Credits: 1, 1, 1
- GRMN215, 216, 217 – Intermediate Oral Expression Credits: 3, 3, 3
- GRMN211, 212, 213 – Intermediate Written Expression Credits: 2, 2, 2
- GRMN221, 222, 223 – Intermed. Reading Comprehension Credits: 3, 3, 3
- GRMN235, 236, 237 – Intermed. Listening Comprehension Credits: 2, 2, 2
- GRMN306, 307, 308 – Advanced Oral Expression Credits: 3, 3, 3
- GRMN311, 312, 313 – Advanced Written Expression Credits: 2, 2, 2
- GRMN325, 326, 327 – Advanced Reading Comprehension Credits: 3, 3, 3
- GRMN335, 336, 337 – Advanced Listening Comprehension Credits: 3, 3, 3
- HIST204, 205, 206 – European Civilization Credits: 2, 2, 2
- HIST304, 305, 306 – European Civilization Credits: 2, 2, 2
- RELB101, 102, 103 – Dogmatics Credits: 2, 2, 2
- RELB301, 302, 303 – Dogmatics Credits: 2, 2, 2
- BUAD/GRMN105, 106 – Business German Credits: 3, 3
- BUAD/GRMN401, 402, 403 – Advanced Business German Credits: 2, 2, 2
- GRMN254, 255, 256 – Survey of German Literature Credits: 3, 3, 3
- GRMN495 – Independent Study Credits: 2–6
- HMEC102 – Vegetarian Cooking & Nutrition Credits: 1.5
- MUPF165, 166, 167 – Private Music Lessons Credits: .5–1, .5–1, .5–1
- MUPF171, 172, 173 – Choir Credits: 1, 1, 1
- MUPF146 – Chamber Orchestra Credits: 1
- FTES104, 105, 106 – Physical Education Credits: 1, 1, 1
- FREN101, 102, 103 – Elementary French Credits: 2, 2, 2
- BUAD/GRMN115, 116, 117 – Elem. Business German & Internship Credits: 1, 1, 1
- BUAD/GRMN215, 216, 217 – Intermed. Bus. German & Internship Credits: 1, 1, 1

Brazil

(Semester Credits)

- PORT350 – Intermediate Portuguese Grammar Credits: 3
- PORT360 – Intermediate Portuguese Composition Credits: 3
- PORT370 – Intermediate Portuguese Conversation Credits: 3
- PORT300 – Folklore of Brazil Credits: 3
- PORT330 – Brazilian Literature Credits: 2
- PORT310 – Contemporary Religious Outlook Credits: 3
- PORT381 – Current Events in Brazil Credits: 2
- FTES120 – Beginning Soccer Credits: 1

France

(Quarter Credits)

- FREN101 – Beginning French Credits: 4
- FREN121 – Comprehension and Written Expression Credits: 3
- FREN131 – Spelling and Grammar Credits: 4
- FREN151 – Elementary Spoken Language Credits: 4
- FREN111 – Phonetics Credits: 1
- FREN191 – Intensive Elementary French Credits: 11
- FREN201 – Intermediate French Credits: 3
- FREN221 – Intermediate Composition Credits: 3
- FREN231 – Spelling and Grammar Credits: 4
- FREN251 – Intermediate Spoken Language Credits: 4
- FREN261 – Reading Comprehension Credits: 2
- FREN291 – Intensive Intermediate French Credits: 9
- FREN321 – Advanced Composition Credits: 3
- FREN331 – Advanced Orthography Credits: 2
- FREN341 – Advanced Grammar Credits: 6
- FREN351 – Advanced Spoken Language Credits: 3
- FREN361 – Text Analysis Credits: 2
- FREN422, 423 – Literary Analysis, Summary Tech. Credits: 2, 2
- FREN424, 425 – Document Analysis and Synthesis Credits: 2, 2
- FREN421 – French Composition Credits: 3
- FREN431, 432 – Advanced Orthography Credits: 2, 2
- FREN441 – Morphology/Syntax of the Simple Sentence Credits: 4
- FREN442 – Morphology/Syntax of the Complex Sent. Credits: 4
- FREN451, 452 – Oral Communication Credits: 2, 2
- FREN493 – Advanced Oral Communication Credits: 4
- FREN461 – Advanced Literary Studies Credits: 3
- FREN/HIST457, 458 – France and Its History Credits: 2, 2
- FREN/PLSC459, 460 – French Institutions Credits: 2, 2
- FREN/SOCI476, 477 – Changes in French Society Credits: 2, 2
- FREN/SOCI479, 480 – Cultures in French-Speaking World Credits: 2, 2
- FREN/RELG254, 354 – Religion (Conversation Topics) Credits: 2, 2
- FREN269/369 – Independent Reading Credits: 1, 1
- MUPF171, 271, 371 – Campus Choir Credits: 1, 1, 1
- FREN/GEOG272, 372 – Regional France Credits: 1,1
- FREN/ARTS273, 373 – French Fine Arts and Monuments Credits: 1, 1
- FREN/PLSC374 – European Institutions Credits: 2
- FREN/PLSC375 – International organizations Credits: 2
- FREN/SOCI376 – French Civilization Credits: 2
- FREN378, 478 – Language Through Drama Credits: 2, 2

Germany

(Semester Credits)

- GRMN105, 106 – Elementary German Credits: 6, 6
- GRMN115, 116 – Elementary Oral Expression Credits: 4, 4
- GRMN125 – Phonetics Credits: 2
- GRMN208, 209 – Intermediate German Credits: 4, 4
- GRMN225 – Intermediate Phonetics Credits: 2
- GRMN235, 236 – Intermediate Oral Expression Credits: 4, 4
- GRMN141, 142 – Multimedia Language Lab Credits: 2, 2
- GRMN195, 196 – Independent Reading Credits: 2, 2
- GRMN175, 176 – Cultural Studies Credits: 2, 2
- GRMN248, 249 – Multimedia Language Lab Credits: 2, 2
- GRMN257, 258 – Survey of German Literature Credits: 2, 2
- GRMN295, 296 – Independent Reading Credits: 2, 2
- GRMN281, 282 – Cultural Studies Credits: 2, 2
- GRMN/HIST288 – German History Credits: 1
- GRMN318, 319 – Advanced Comprehensive German Credits: 4, 4
- GRMN309, 310 – Advanced Grammar Credits: 2, 2
- GRMN328, 329 – Advanced Reading Credits: 2, 2
- GRMN338, 339 – Cultural Studies Credits: 2, 2

- GRMN361, 362 – Survey of German Literature Credits: 2, 2
- RELB351, 352 – Theology Credits: 2, 2
- HIST381, 382 – German History Credits: 1, 1
- SOWK301, 302 – Social Work Credits: 2, 2
- GRMN388, 389 – Adv Grammar & Reading Comprehension Credits: 2, 2
- ART321, 322 – Ceramics: Drawing/Handicraft Credits: 2, 2
- MUPF131, 132 – Music Lessons Credits: 1, 1
- MUPF141, 142 – Choir Credits: 1, 1
- MUPF151, 152 – Brass Ensemble Credits: 1, 1
- HMEC107 – International Cooking Credits: 1
- FTES111, 112 – Physical Education Credits: 1, 1

Italy

(Quarter Credits)

- ITLN111 – Phonetics Credits: 1
- ITLN151, 152, 153 – Elementary Grammar Credits: 5, 5, 5
- ITLN181, 182, 183 – Elementary Conversation Credits: 3, 3, 3
- ITLN212 – Italian Culture Credits: 2
- ITLN251, 252, 253 – Intermediate Grammar Credits: 5, 5, 5
- ITLN281, 282, 283 – Intermediate Conversation Credits: 2, 2, 2
- ITLN262 – Intermediate Composition Credits: 2
- ITLN313 – Advanced Italian Culture Credits: 2
- ITLN351, 352, 353 – Advanced Grammar Credits: 3, 3, 3
- ITLN361 – Advanced Composition Credits: 2
- ITLN381, 382, 383 – Advanced Conversation Credits: 2, 2, 2
- ITLN451 – Advanced Grammar II Credits: 3
- ITLN461 – Advanced Composition II Credits: 2
- ITLN471 – Advanced Conversation II Credits: 3
- ITLN/HIST303 – Italian History Credits: 2
- ITLN/LITT333 – Italian Literature Credits: 2
- ITLN431 – Advanced Italian Literature Credits: 2
- ITLN/ART/HIST230, 330 – History of Italian Art Credits: 3, 3
- ITLN/GEOG310 – Geography of Italy Credits: 1
- ITLN/MUHL/HIST375 – History of Italian Music Credits: 2
- ART/HMEC315, 316 – The Art of Tailoring Credits: 1, 1
- ART311, 312, 313 – Ceramics Credits: 2, 2, 2
- ART322, 323 – Fashion Design Credits: 2, 2
- ART341, 342, 343 – Fine Arts Drawing Credits: 2, 2, 2
- ITLN/LITT/ENGL360 – Italy & its Culture in British & American Literature Credits: 2
- ITLN370, 470 – History of the Italian Cinema Credits: 2, 2
- ITLN380, 480 – Current Events Credits: 1, 1
- FREN101, 102, 103 – French I Credits: 2, 2, 2
- HMEC101, 102 – Mediterranean Cooking Credits: 1, 1
- ITLN278, 378 – Language Through Drama Credits: 2, 2
- ITLN/ART172, 272, 372 – Italian Fine Arts and Monument Credits: 1, 1, 1
- ITLN/ART/RELB399 – Independent Study Credits: 1–4
- ITLN422, 423 – Translation and Interpretation Credits: 2, 2
- MUPF101, 202, 303 – Piano Credits: 1, 1, 1
- MUPF171, 172, 173 – Choir Credits: 1, 1, 1
- MUPF291 – Voice Credits: 1
- FTES101, 102, 103 – General Fitness Program Credits: 1, 1, 1
- RELB101, 201, 301 – Religion Credits: 1, 1, 1
- RELH301 – History of the Adventist Church Credits: 2

Spain

(Quarter Credits)

- SPAN201, 202, 203 – Spanish Folklore Credits: 2, 2, 2
- SPAN225 – Spanish in Contemporary Music Credits: 1
- SPAN228 – Spanish and European Movies Credits: 1
- SPAN241, 242, 243 – Preparation for the Spanish Diploma Credits: 1, 1, 1
- SPAN251, 252, 253 – Intermediate Spanish Grammar Credits: 4, 4, 4

- SPAN261, 262, 263 – Intermediate Spanish Composition Credits: 3, 3, 3
- SPAN271, 272, 273 – Intermediate Spanish Conversation Credits: 2, 2, 2
- SPAN281, 282, 283 – Current Events in Spain Credits: 1, 1, 1
- SPAN301, 302, 303 – History of Spain Credits: 3, 3, 3
- SPAN312, 313 – Spain and Its Culture Credits: 2, 2
- SPAN/BUAD321, 322 – Business Spanish Credits: 2, 2
- SPAN331, 332, 333 – History of Spanish Literature Credits: 3, 3, 3
- SPAN341, 342, 343 – Preparation for the Spanish Diploma Credits: 1, 1, 1
- SPAN351, 352, 353 – Advanced Spanish Grammar Credits: 4, 4, 4
- SPAN361, 362, 363 – Advanced Spanish Composition 3, 3, 3
- SPAN371, 372, 373 – Advanced Spanish Conversation 2, 2, 2
- SPAN375 – Spanish for Health Professionals Credits: 2
- SPAN421, 422, 423 – Translation and Interpretation Credits: 2, 2, 2
- SPAN441, 442, 443 – Preparation for the Spanish Diploma Credits: 1, 1, 1
- SPAN451, 452, 453 – Advanced Spanish Grammar II Credits: 4, 4, 4
- SPAN461, 462, 463 – Advanced Spanish Composition II Credits: 3, 3, 3
- SPAN471, 472, 473 – Advanced Spanish Conversation II Credits: 2, 2, 2
- SPAN495 – Independent Study Credits: 1–4
- ART321, 322, 323 – History of European Art Credits: 3, 3, 3
- GEOG311 – Geography of Spain Credits: 2
- HIST301, 302, 303 – History of Spain Credits: 3, 3, 3
- RELB291, 292, 293 – The Gospel & Contemporary Culture Credits: 2, 2, 2
- MUF126 – Private Lessons Credits: 1–3
- MUPF171, 172, 173 – Choir Credits: 1, 1, 1
- MUPF146, 147, 148 – Orchestra Credits: 1, 1, 1
- FTES121, 122, 123 – Physical Education Credits: 1, 1, 1

ACA Summer Courses

See the summer ACA bulletin for course descriptions. A minimum of C is required.

Austria

(Quarter Credits)

- GRMN101, 102, 103 – Beginning German Credits: 2, 2, 2
- GRMN151, 152, 153 – Elementary Oral Expression Credits: 1, 1, 1
- GRMN191, 192, 193 – Intensive German Review Credits: 3, 3, 3
- GRMN201, 202, 203 – Intermediate German Credits: 2, 2, 2
- GRMN251, 252, 253 – Intermediate Oral Expression Credits: 1, 1, 1
- GRMN291, 292, 293 – Intensive German Review Credits: 3, 3, 3
- GRMN301, 302, 303 – Advanced German Credits: 2, 2, 2
- GRMN351, 352, 353 – Advanced Oral Expression Credits: 1, 1, 1
- BUAD115, 116, 117 – Elem. Business German & Internship Credits: 1, 1, 1
- BUAD215, 216, 217 – Intermed. Bus. German & Internship Credits: 1, 1, 1

Brazil

(Semester Credits)

- PORT101, 102 – Beginning Portuguese Credits: 3, 3
- PORT191, 192 – Intensive Portuguese Review Credits: 3, 3
- PORT211, 212 – Intermediate Portuguese Credits: 3, 3
- PORT291, 292 – Intensive Portuguese Review II Credits: 3, 3
- PORT321, 322 – Advanced Portuguese I Credits: 3, 3

France

(Quarter Credits)

- FREN102 – Beginning French Credits: 3
- FREN122 – Written Comprehension & Expression Credits: 2
- FREN132 – Spelling and Grammar Credits: 1
- FREN152 – Elementary Oral Expression Credits: 3
- FREN192 – Intensive Elementary French Credits: 3
- FREN202 – Intermediate French Credits: 2
- FREN222 – Intermediate Composition Credits: 2
- FREN232 – Spelling and Grammar Credits: 2
- FREN252 – Intermediate Oral Expression Credits: 2

- FREN262 – Reading Comprehension Credits: 1
- FREN292 – Intensive Intermediate French Credits: 5
- FREN322 – Advanced Composition Credits: 2
- FREN332 – Orthography Credits: 1
- FREN342 – Advanced Grammar Credits: 2
- FREN352 – Advanced Oral Expression Credits: 2
- FREN362 – Literary Studies Credits: 2
- FREN422 – Literary Analysis, Summary Techniques Credits: 2
- FREN462 – Advanced Literary Studies Credits: 2

Greece

(Quarter Credits)

- GREK/RELL331, 332, 333 – Intermediate Greek I, II, III Credits: 3, 3, 3
- HEBR331, 332, 333 – Hebrew Credits: 3, 3, 3

Italy

(Quarter Credits)

- ITLN101, 102, 103 – Beginning Italian Credits: 2, 2, 2
- ITLN/ART131 – Italian Art Credits: 3
- ITLN191, 192, 293 – Intensive Italian Review I Credits: 2, 2, 2
- ITLN201, 202, 203 – Intermediate Italian Credits: 2, 2, 2
- ITLN/ART231 – Italian Art Credits: 3
- ITLN291, 292, 293 – Intensive Italian Review II Credits: 2, 2, 2

Mexico

(Quarter Credits)

- SPAN101, 102, 103 – Beginning Spanish Credits: 3, 3, 3
- SPAN211, 212, 213 – Intermediate Spanish Credits: 3, 3, 3
- SPAN312 – Mexico and its Culture Credits: 2
- SPAN351 – Advanced Spanish Grammar Credits: 3
- SPAN361 – Advanced Spanish Composition Credits: 2
- SPAN371 – Advanced Spanish Conversation Credits: 2

Spain

(Quarter Credits)

- SPAN101, 102, 103 – Beginning Spanish Credits: 3, 3, 3
- SPAN191, 192, 193 – Intensive Spanish Review Credits: 3, 3, 3
- SPAN211, 212, 213 – Intermediate Spanish Credits: 3, 3, 3
- SPAN291, 292, 293 – Intensive Spanish Review II Credits: 3, 3, 3
- SPAN311 – Spain and Its Culture Credits: 2
- SPAN350 – Advanced Spanish Grammar Credits: 3
- SPAN360 – Advanced Spanish Composition Credits: 2
- SPAN370 – Advanced Spanish Conversation Credits: 2

Ukraine

(Quarter Credits)

- RUSS101, 102, 103 – Beginning Russian Credits: 3, 3, 3
- RUSS211, 212, 213 – Intermediate Russian Credits: 3, 3, 3
- RUSS351 – Advanced Russian Grammar Credits: 3
- RUSS361 – Advanced Russian Composition Credits: 3
- RUSS371 – Advanced Russian Conversation Credits: 3

Additional Information

Language Honor Society. The local Beta Kappa chapter of AlphaMu Gamma, the national collegiate honor society for foreign languages, gives recognition to outstanding students.

Language Clubs. The Department of International Language Studies sponsors two language clubs. The purpose is to promote cultural, academic, social and spiritual activities. “Adelante” is the Spanish club and “Oh la la” is the French club. Both clubs require membership fees.

Language Requirements for General Education. Students who wish to have the language requirement waived (with or without credit) by passing a proficiency exam should apply at the Department of International Language Studies. Exams are given in the languages taught at the department: French, German, Korean, Portuguese, and Spanish. Exceptions can be made for other languages by the chair of the Department of International Language Studies. The examination will reflect the student–performance outcomes expected at the intermediate level in the four language skills of reading, writing, listening, and speaking according to the American Council of Teaching Foreign Languages (ACTFL) guidelines. Upon written approval by the instructor, the Department of International Language Studies will grant up to 12 credits per language examined.

Preparation for Teaching. Students preparing to teach French or Spanish at the elementary or secondary level must qualify for teaching credentials as outlined in the School of Education section of this bulletin. The program leading to the Master of Arts in Teaching (MAT) degree in French or Spanish is described in the School of Education section of this bulletin.

French

FREN 171 – Elementary French I

Credits: 3
Grammar with reading and writing of simple French in the context of significant aspects of culture—oral and listening work stressed. Designed for students who have no French or less than 2 years of high–school French or its equivalent. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FREN 171V – Elementary French I

Credits: 4
Grammar with reading and writing of simple French in the context of significant aspects of culture—oral and listening work stressed. Designed for students who have no French or less than 2 years of high–school French or its equivalent. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

FREN 172 – Elementary French II

Credits: 3
Grammar and reading continued in the context of significant aspects of culture; oral and listening work progressively increased. Designed for students with 2–3 years of high–school French. A one–hour lab per week is required. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** FREN 171 with a minimum grade of C or permission of the instructor. **College Code:** CAS

FREN 172V – Elementary French II

Credits: 4
Grammar and reading continued in the context of significant aspects of culture; oral and listening work progressively increased. Designed for students with 2–3 years of high–school French. A one–hour lab per week is required. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

FREN 275 – Intermediate French

Credits: 4
Grammar, reading, composition, and oral and aural exercises in the context of significant aspects of French culture. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** FREN 172 with a minimum grade of C or permission of the instructor. **College Code:** CAS

FREN 275V – Intermediate French

Credits: 4
Grammar, reading, composition, and oral and aural exercises in the context of significant aspects of French culture. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

FREN 280 – French Conversation and Composition

Credits: 3
Training in oral and writing self–expression, with emphasis on fluency and accuracy. Acquisition of idioms and review of different speaking and writing levels that exist within the French language. Special attention to important differences that exist among all Francophone countries when speaking and writing. Reading comprehension and study of grammatical structures are important components of this course. Weekly: 3 lectures and a 1–hour lab **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** FREN 275 with a minimum grade of C or instructor permission **College Code:** CAS

FREN 366 – French Conversation

Credits: 3
Training in oral self–expression, with emphasis on fluency and accuracy. Acquisition of idioms and review of different speaking levels that exist within the language. Special attention to important differences that exist among all Francophone countries. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** FREN 275 with a minimum grade of C or permission of the instructor. **College Code:** CAS

FREN 367 – French Composition

Credits: 3
Written French with special emphasis on reading comprehension and composition which incorporates the study of grammatical structures. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** FREN 275 with a minimum grade of C or permission of the instructor. **College Code:** CAS

FREN 401 – Fundamentals of Translation

Credits: 3
Techniques of translation processes in rendering into French and English materials ranging from official documents to technical essays and literary texts. Conducted entirely in French. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FREN 402 – French for Interpreters

Credits: 3
Intensive study and practice in the art of consecutive and simultaneous oral translation. Conducted entirely in French. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FREN 405 – French Grammar Review

Credits: 1
A review of all basic grammar rules that are required to elaborate written documents and to help in the process of achieving fluency. Special emphasis is given to conjugation, orthography, and syntax. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FREN 415 – Advanced French Communication

Credits: 3
A comprehensive study of French grammar for written and oral communication. A review of techniques and strategies to improve communication through creative writing, speech preparation and class presentations. Emphasis on language fluency and accuracy. Conducted entirely in French. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FREN 420 – Francophone Cultures: The New World and the Third World

Credits: 3
Explores non–European cultures where French is used as a medium of expression. Study in French literature and film from North America, the Caribbean and Africa. Conducted entirely in French. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

FREN 429 – French for International Travel and Tourism

Credits: 3

Spoken and written French common to the French-speaking world of tourism, hotel business and catering, emphasizing on practices and cultural tools required to communicate in a French-speaking professional environment. This course provides an intensive preparation to the Diplôme de Français Professionnel Tourisme et Hotellerie conferred by the Chambre de Commerce et d'Industrie de Paris.

Conducted entirely in French. An arranged lab is required \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W) **College Code:** CAS

FREN 430 – Contemporary French Culture and Society

Credits: 3

Analysis and comparison of French and American value orientations, family structures, and educational, political, economic, and cultural institutions. Course offered only during summer study tour to France. Conducted entirely in French.

Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students

Grade Mode: Normal (A–F,I,W) **College Code:** CAS

FREN 434 – French for Medical Professions

Credits: 3

Spoken and written French used by medical professions in the French-speaking world. Strong emphasis on vocabulary, phrases, terminology and specific language used in a doctor's office and hospital settings. This course provides an intensive preparation to the Diplôme de Français Professionnel Medical conferred by the Chambre de Commerce et d'Industrie de Paris. Conducted entirely in French. An arranged lab is required \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W)

College Code: CAS

FREN 445 – French Literature and Film

Credits: 3

Analysis and comparison of artistic differences between selected pieces of French literature and their film adaptation. Conducted entirely in French. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students

Grade Mode: Normal (A–F,I,W) **College Code:** CAS

FREN 460 – French for International Trade

Credits: 3

Spoken and written French common to the French-speaking world of business and industry, emphasizing business practices and cultural tools required to communicate in the French-speaking economic environment: business operations and socio-economics in France; the economy of France. This course provides an intensive preparation of the Diplôme Français des Affaires I conferred by the Chambre de Commerce et d'Industrie de Paris. Conducted entirely in French. An arranged lab is required

Grade Mode: Normal (A–F,I,W) **College Code:** CAS

FREN 505 – Reading French

Credits: 5

For students without a working knowledge in French; an introduction to the grammar and syntax of French for the purpose of translating written French into English. May count toward a general elective only.

Grade Mode: Normal (A–F,I,W)

College Code: CAS

German

GRMN 181 – Elementary German I

Credits: 3

Grammar with reading, writing and pronunciation of simple German in the context of significant aspects of culture—oral and listening work stressed. A one-hour lab per week is required \$ – Course or lab fee

Grade Mode: By examination (P)

Recommended: A one-hour lab per week is required. **Offering:** Alternate years

College Code: CAS

GRMN 182 – Elementary German II

Credits: 3

Grammar and reading continued: oral and listening work progressively increased. A one-hour lab per week is required. Course offered during spring semester in alternate years. \$ – Course or lab fee

Grade Mode: By examination (P)

Corequisite(s): Prerequisite: GRMN171 with a minimum grade of C or permission of the instructor. **Offering:** Spring

College Code: CAS

GRMN 415 – German Culture

Credits: 3

An introduction to the life and people of German speaking countries through lectures and readings in standard German on the geography, history, politics, business, social problems, arts, and literatures of the area. Conducted entirely in German. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

GRMN 425 – Contemporary German

Credits: 3

Analysis and comparison of German and American value orientations, family structures, and educational, political and economic, and cultural institutions.

Conducted entirely in German. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years

College Code: CAS

GRMN 505 – Reading German

Credits: 5

For students without a working knowledge in German; an introduction to the grammar and syntax of German for the purpose of translating written German into English. May count toward a general elective only.

Grade Mode: Normal (A–F,I,W)

Repeatable: Repeatable **College Code:** CAS

International Language Studies

INLS 121 – Elementary _____ I

Credits: 3

significant aspects of culture of the foreign language—oral and listening work stressed. A one-hour lab per week is required. Language options can be discussed with the Department of INLS. \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W)

College Code: CAS

INLS 122 – Elementary _____ II

Credits: 3

Grammar with reading and writing continued in the context of significant aspects of culture of the foreign language—oral and listening work progressively increased.

A one-hour lab per week is required. Language options can be discussed with the Department of INLS. \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W)

College Code: CAS

INLS 235 – Intermediate _____

Credits: 4

Grammar, reading, composition, oral and aural exercises in the context of significant aspects of the culture of the foreign language. A one-hour lab per week is required \$ – Course or lab fee

Grade Mode: Normal (A–F,I,W) **Prerequisite(s):**

INLS 122 with a minimum grade of C or permission of the instructor. **College Code:**

CAS

INLS 295 – Directed Study/Readings/Research/Project

Credits: 1–3

In the area of language, culture, literature, or international trade. INLS495 is open only to qualified upper division students. Permission of instructor required.

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W)

Repeatable: Repeatable with different topics

College Code: CAS

INLS 330 – French/Spanish Service Fieldwork

Credits: 1–2

Designed for students having an advanced level of proficiency in French or Spanish. Services may include activities such as mentoring international students on and off campus, tutoring, interpreting and translating for community and government agencies.

Grade Mode: Satisfactory w/DG (S,U,I,W,DG)

Repeatable: Repeatable up to 2 credits

College Code: CAS

INLS 400 – Topics in _____

Credits: 3

A study of selected topics in language, culture, literature, or international trade.

Topic and credits to be announced. **Grade Mode:** Normal (A–F,I,W)

Repeatable: Repeatable with different topics

College Code: CAS

INLS 458 – Methods of Foreign Language Instruction: K–12

Credits: 3

An overview of approaches and practical techniques in foreign language instruction as well as the theoretical notions underlying current trends in classroom practice.

Topics of study will include pedagogical practices and research in FL teaching, ways of using that research, and practical applications of instructional methods. This

course focuses on methods for K–12. Attending the Michigan World Language Association Conference in Lansing is required. Required for teacher certification. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

INLS 478 – Study Tour:

Credits: 0
Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee
Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

INLS 490 – Language and International Trade Internship/Practicum

Credits: 3
A one–semester, full–time work assignment which provides the opportunity to extend theoretical classroom learning in an appropriate setting in the U.S. or abroad. A final report is required. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

INLS 495 – Directed Study/Readings/Research/Project

Credits: 1–3
In the area of language, culture, literature, or international trade. INLS495 is open only to qualified upper division students. Permission of instructor required. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

INLS 575 – Topics in _____

Credits: 1–3
A study of selected topics in language, literature, or civilization. Topics and credits to be announced. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable with different topics **College Code:** CAS

INLS 590 – Directed Study/Reading/Research/Project

Credits: 1–3
Studies in the area of French/Spanish language, literature, or civilization, as determined in consultation with the instructor. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

Italian

ITLN 141 – Elementary Italian I

Credits: 3
significant aspects of culture—oral and listening work stressed. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, alternate years **College Code:** CAS

ITLN 142 – Elementary Italian II

Credits: 3
Grammar and reading continued: oral and listening work progressively increased. A one–hour lab per week is required. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** ITLN171 with a minimum grade of C or permission of the instructor. **Offering:** Spring **College Code:** CAS

ITLN 436 – Contemporary Italian Culture

Credits: 3
Studies of the life and people of Italian speaking countries through lectures and readings in standard Italian. Readings are related to geography, history, politics, business, social problems, arts, and literatures. Conducted entirely in Italian. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

ITLN 468 – Italian Fine Arts, Literature and Film

Credits: 3
Analysis and comparison of artistic differences between selected pieces of Italian literature and their film adaptation. Emphasis on language and all artistic expressions connected to the identity of the Italian culture and society. Conducted entirely in Italian. Weekly: 3 lectures **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

Portuguese

PORT 171 – Elementary Portuguese I

Credits: 3
Grammar with reading and writing of simple Portuguese in the context of significant aspects of culture—oral and listening work stressed. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PORT 172 – Elementary Portuguese II

Credits: 3
Grammar and reading continued: oral and listening work progressively increased. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PORT 171 with a minimum grade of C or permission of instructor. **College Code:** CAS

PORT 420 – Portuguese Literature & Culture

Credits: 3
A study of selected major Portuguese and Brazilian writers whose works reflect important political, social, moral, and cultural aspects of Portuguese societies. Conducted entirely in Portuguese. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

PORT 430 – Contemporary Brazilian Culture

Credits: 3
An introduction to the life and people of Brazil through lectures and readings in Brazilian Portuguese on the geography, history, politics, social problems, arts, business and literature of the region. Conducted entirely in Portuguese. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

Spanish

SPAN 171 – Elementary Spanish I

Credits: 3
Grammar with reading and writing of simple Spanish in the context of significant aspects of culture—oral and listening work stressed. Elementary Spanish I is designed for students who have studied no Spanish or less than 2 years of high–school Spanish or its equivalent. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 172 – Elementary Spanish II

Credits: 3
Grammar and reading continued: oral and listening work progressively increased. Designed for students with 2–3 years of high–school Spanish or its equivalent. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SPAN 171 with a minimum grade of C or permission of instructor. **College Code:** CAS

SPAN 275 – Intermediate Spanish

Credits: 4
Grammar, reading, composition, oral and listening exercises on the intermediate level, including significant aspects of Spanish culture. A one–hour lab per week is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SPAN 172 with a minimum grade of C or permission of instructor. **College Code:** CAS

SPAN 280 – Spanish Conversation and Composition

Credits: 3
Training in oral and writing self–expression, with emphasis on fluency and accuracy. Acquisition of idioms and review of different speaking and writing levels that exist within the Spanish language. Special attention to important differences that exist among all Spanish speaking countries when using the language in both speaking and writing. Reading comprehension and study of grammatical structures are important components of this course. Weekly: 3 lectures and a 1–hour lab **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SPAN 275 with a minimum grade of C or instructor permission **College Code:** CAS

SPAN 325 – Spanish for the Medical Professions

Credits: 3

Spoken and written Spanish used by the medical professions in the Spanish-speaking world. Strong emphasis on vocabulary, phrases, medical terminology, and specific language use in a doctor's office and hospital settings. Basic knowledge of Spanish recommended. An arranged lab is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 405 – Spanish Grammar Review

Credits: 1

A review of all basic grammar rules that are required to elaborate written documents and to help in the process of achieving fluency. Special emphasis is given to conjugation, orthography, and syntax. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 416 – Spanish for Native Speakers

Credits: 3

An in-depth study of the Spanish language for native speakers who have not had previous formal academic instruction in Spanish. Special emphasis will be given to oral and written communication by focusing on grammar, syntax, and correct usage of the Spanish language. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 420 – Advanced Spanish Written and Oral Communication

Credits: 3

A comprehensive study of Spanish grammar for written and oral communication. A review of techniques and strategies to improve communication through creative writing, speech preparation, and class presentations. Emphasis on language fluency and accuracy. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 426 – Contemporary Spain

Credits: 3

An overview of contemporary Spain and its role in Europe as well as Latin America. Special consideration of geographical aspects, commerce, industry, tourism, education, political settings, and status of the Monarchy are given. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 434 – Spanish Culture and Ethics

Credits: 3

A course designed to explore basic concepts related to ethics in the Spanish world. It will include religion, tradition, work environment, education, discrimination, migration, politics, and social differences. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 436 – Spanish–American Culture

Credits: 3

An introduction to the life and people of Spanish America through lectures and readings in standard Spanish on the geography, history, politics, social problems, arts, and literature of the area. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 438 – Mexico and Central American Culture

Credits: 3

An overview of the Mexico and Central American cultures and their presence in the United States of America. Special consideration to customs, traditions, values, lifestyle, and social problems along with some historical events that have greatly influenced Mexicans and Central Americans. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 439 – Spanish Caribbean Culture

Credits: 3

A course designed to explore Hispanic culture and traditions in the Spanish-speaking Caribbean islands. Special interest in Cuba, Dominican Republic and Puerto Rico and their immigration trends to the United States of America. A study of their lifestyle, values, traditions, and customs. Conducted entirely in Spanish. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 446 – Spanish and Latin American Drama

Credits: 3

A study of selected major Spanish and Latin American writers whose works reflect important political, social, moral, and cultural aspects of Hispanic societies. Conducted entirely in Spanish. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 447 – Spanish for Translation

Credits: 3

An introduction to the basic principles of translation from English to Spanish and from Spanish to English. An approach to techniques used in writing translation. Strong emphasis on written translations. Conducted entirely in Spanish. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 448 – Spanish and Latin American Literature and Film

Credits: 3

Comparison of artistic and linguistic differences between selected pieces of Spanish and Latin American literature and their film adaptation. Emphasis on language, characters, and cultural aspects of society. Conducted entirely in Spanish. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 449 – Spanish for Interpreters

Credits: 3

A study of the basic principles of oral interpretation from English to Spanish and from Spanish to English. An approach to techniques used in oral interpretation. Strong emphasis on oral communication. Conducted entirely in Spanish. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 456 – Spanish for Speech Pathologists and Audiologists

Credits: 3

Spoken and written Spanish used by speech pathologists and audiologists in both the medical and the educational fields in the United States of America as well as Spanish-speaking countries in the world. Strong emphasis on vocabulary, including specific terminology used in medical settings. This course is specifically oriented to students completing a degree in Spanish and Speech Language Pathology and Audiology as well as to those completing a degree in translation. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 457 – Spanish Media Translation

Credits: 3

A study of the basic principles of translation in the media. Comparison between translation of written documents and oral messages. Special attention to translating news, commercials, movies, websites, speeches, newspapers, and magazines. Conducted in both English and Spanish. An arranged lab is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 470 – Spanish for International Trade

Credits: 3

Spoken and written Spanish common to the Spanish-speaking world of business and industry, with emphasis upon business practices, and the writing and translating of business letters and professional reports. Cross-cultural references provide opportunities for comparative and contrastive analysis of American and Spanish cultural patterns in business settings. Conducted entirely in Spanish. An arranged lab is required \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SPAN 488 – Spanish for International Relations

Credits: 3

Spoken and written Spanish common to the Spanish-speaking world of international relations with emphasis in vocabulary related to government agencies, non-profit organizations, diplomacy, religious entities, independent agencies (UN, OEA). Special emphasis in communication. Conducted entirely in Spanish. An arranged lab is required \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

Liberal Arts & Interdisciplinary Studies

On–Campus Degree Programs

Nethery Hall, Room 135
269–471–3398; Fax 269–471–8407
esnorra@andrews.edu
Erling B. Snorrason, *Coordinator*

Distance Degree Programs

Griggs Hall, Room 120
269–471–6570
stuservgriggs@andrews.edu
www.andrews.edu/distance/
Glynis Bradfield, *Advisor*

Mission

Liberal Arts & Interdisciplinary Studies serves students who need a general, individualized and interdisciplinary degree, or specific courses that do not naturally fit within any existing departments. The goal is to cooperate with the mission of the sponsoring departments and the fundamental mission of Andrews University.

Associates

Liberal Arts AA

Andrews University offers an Associate of Science and an Associate of Arts degree in Liberal Arts. Designed to serve students with career and personal goals that may not accurately match existing degrees, the Liberal Arts degree is available through a special application process.

Degree Requirements

1. Make application prior to taking the last 30 credits of an associate's degree. The approval process includes consideration of the appropriateness of the degree package for the career and personal goals of the applicant.
2. Fulfill the general associate degree requirements.
3. Complete General Education requirements as recommended for all AA/AS degrees.
4. Formulate a joint Degree Program Plan with the advisor and sponsoring departments.
5. Obtain departmental sponsorships for the focus or foci of the proposed program.
6. Receive final approval from the Dean, College of Arts & Sciences.

Liberal Arts AS

Andrews University offers an Associate of Science and an Associate of Arts degree in Liberal Arts. Designed to serve students with career and personal goals that may not accurately match existing degrees, the Liberal Arts degree is available through a special application process.

Degree Requirements

1. Make application prior to taking the last 30 credits of an associate's degree. The approval process includes consideration of the appropriateness of the degree package for the career and personal goals of the applicant.
2. Fulfill the general associate degree requirements.
3. Complete General Education requirements as recommended for all AA/AS degrees.
4. Formulate a joint Degree Program Plan with the advisor and sponsoring departments.
5. Obtain departmental sponsorships for the focus or foci of the proposed program.
6. Receive final approval from the Dean, College of Arts & Sciences.

Bachelors

Liberal Arts BA

Andrews University offers a Bachelor of Science and a Bachelor of Arts degree in Liberal Arts. Designed to serve students with career and personal goals that may not accurately match existing degrees, the Liberal Arts degree is available through a special application process.

Degree Requirements

1. Make application prior to taking the last 30 credits of a bachelors degree. The approval process includes consideration of the appropriateness of the degree package for the career and personal goals of the applicant.
2. Fulfill the general baccalaureate degree requirements.
3. Complete General Education requirements as recommended for all BS/BA degrees.
4. Formulate a joint Degree Program Plan with the advisor and sponsoring departments.
5. Obtain departmental sponsorships for the focus or foci of the proposed program.
6. Receive final approval from the Dean, College of Arts & Sciences.

Liberal Arts BA (Distance Ed)

The Liberal Arts BA offers a flexible study program which is particularly advantageous to distance–education students who already may have earned considerable credits and would like to organize these credits so they may earn a baccalaureate degree. This degree is available only to distance–education students.

Degree Requirements

The degree requirements are expressed for distance–education students only. The distance–education, general–studies program requires a minimum of 124 semester hours for a Bachelor degree and 62 semester hours for an Associate degree. This total includes all general education requirements, degree, and graduation requirements, with a minimum of 30 semester hours within a major or emphasis.

Liberal Arts BS

Andrews University offers a Bachelor of Science and a Bachelor of Arts degree in Liberal Arts. Designed to serve students with career and personal goals that may not accurately match existing degrees, the Liberal Arts degree is available through a special application process.

Degree Requirements

1. Make application prior to taking the last 30 credits of a bachelors degree. The approval process includes consideration of the appropriateness of the degree package for the career and personal goals of the applicant.
2. Fulfill the general baccalaureate degree requirements.
3. Complete General Education requirements as recommended for all BS/BA degrees.
4. Formulate a joint Degree Program Plan with the advisor and sponsoring departments.
5. Obtain departmental sponsorships for the focus or foci of the proposed program.
6. Receive final approval from the Dean, College of Arts & Sciences.

Liberal Arts BS (Distance Ed)

The Liberal Arts degree offers a flexible study program which is particularly advantageous to distance–education students who already may have earned considerable credits and would like to organize these credits so they may earn a baccalaureate degree. This degree is available only to distance–education students.

Distance Degrees

Baccalaureate Degrees in General Studies

The General Studies degree offers a flexible study program which is particularly advantageous to distance–education students who already may have earned considerable credits and would like to organize these credits so they may earn a baccalaureate degree. See the School of Distance Education for Distance Education course descriptions.

Degree Requirements

The degree requirements are expressed for distance–education students only. The distance–education, general–studies program requires a minimum of 124 semester hours for a Bachelor degree and 62 semester hours for an Associate degree. This total includes all general education requirements, degree, and graduation requirements, with a minimum of 30 semester hours within a major or emphasis.

Liberal Arts, Behavioral Sciences Cross–Cultural Studies Emphasis BS (Distance Ed)

The Liberal Arts degree offers a flexible study program which is particularly advantageous to distance–education students who already may have earned

considerable credits and would like to organize these credits so they may earn a baccalaureate degree. This degree is available only to distance–education students. NOTE: Some courses are only available on–campus or via transfer credit. Tuition rates vary depending upon program and delivery method.

Degree Requirements

A minimum of 30 semester credits must be selected from courses numbered 300 or above. The major includes the following core courses:

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3

- PSYC 251 **or**
- PSYC 252 – The Psychology of Adolescence, Youth, and Aging Credits: 3

- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

- SOCI 432 – Research Methods II: Introduction Credits: 3 **or**
- PSYC 432 – Research Methods II: Introduction Credits: 3

- FMST 310 – Parent–Child Relationships Credits: 3
- STAT 285 – Elementary Statistics Credits: 3
- The remaining 18 semester credits must be selected from the following emphasis:

Cross–Cultural Studies

- GEOG 260 – Cultural Geography Credits: 3
- BHSC 220 – An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- SOCI 425 – Racial and Ethnic Relations Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- FMST 350 – Family Cultural Perspectives Credits: 3

Total Credits: 45

Liberal Arts, Behavioral Sciences Human Organization and Behavior Emphasis BS (Distance Ed)

The Liberal Arts degree offers a flexible study program which is particularly advantageous to distance–education students who already may have earned considerable credits and would like to organize these credits so they may earn a baccalaureate degree. This degree is available only to distance–education students.

NOTE: Some courses are only available on–campus or via transfer credit. Tuition rates vary depending upon program and delivery method.

Degree Requirements

A minimum of 30 semester credits must be selected from courses numbered 300 or above. The major includes the following core courses:

- ANTH 124 – Introduction to Anthropology Credits: 3
- ANTH 200 – Cultural Anthropology Credits: 3
- PSYC 101 – Introduction to Psychology Credits: 3

- PSYC 251 **or**
- PSYC 252 – The Psychology of Adolescence, Youth, and Aging Credits: 3

- PSYC 269 – History and Systems of Psychology Credits: 3
- PSYC 450 – Social Psychology Credits: 3
- SOCI 474 – Social Thought and Theory Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

- SOCI 432 – Research Methods II: Introduction Credits: 3 **or**

- PSYC 432 – Research Methods II: Introduction Credits: 3
- FMST 310 – Parent–Child Relationships Credits: 3
- STAT 285 – Elementary Statistics Credits: 3
- The remaining 18 semester credits must be selected from the following emphasis:

Human Organization and Behavior

- BHSC 440 – Topics in _____ Credits: 1–4 Industrial Psychology
- ECON 225 – Principles of Macroeconomics Credits: 3
- FMST 460 – Family Resource Management Credits: 3
- PSYC 315 – Organization and Human Resources Credits: 3
- SOCI 160 – Introduction to International Development Credits: 3
- SOCI 470 – Demography Credits: 3
- SOCI 488

Total Credits: 45

Liberal Arts, Humanities Emphasis BA (Distance Ed)

The Liberal Arts degree offers a flexible study program which is particularly advantageous to distance–education students who already may have earned considerable credits and would like to organize these credits so they may earn a baccalaureate degree. This degree is available only to distance–education students.

For the BA Liberal Arts, Humanities emphasis, at least three areas of study must be chosen from the following list. Each area selected must provide 9 semester credits. At least one upper–division course is required from each of the six areas.

NOTE: Some courses are only available on–campus or via transfer credit. Tuition rates vary depending upon program and delivery method.

Areas of Study

- Art and Music
- Foreign Language or courses in non–English cultures
- History, Anthropology, Cultural Geography
- Human Belief Systems
- Literature
- Philosophy (Critical Thinking, Symbolic Logic, Debate, Persuasion, Linguistics)

Note:

Half of all credits in the major must be upper–division level. No major courses may be counted for General Education requirements. Introduction to Philosophy is a required course.

Total Credits: 30

Undergraduate Minors

Liberal Arts Minor

A minor in Liberal Arts may be used in conjunction with regular degrees or with a Liberal Arts major. A GPA of at least 2.00 is required in all transfer credits—and in all credits earned at Andrews University that are counted for the minor—with no grade below C–. At least 3 semester credits must be earned on campus in courses numbered 300 or above; no more than 5 semester credits from the major can be used in the minor.

Total Credits: 20

General Studies

GNST 091 – Academic Tutorial Support

Credits: 1–4

A tutorial application of the principles of academic success. Includes one–on–one tutoring and/or group–learning experiences. Could also include academic or cognitive evaluations when necessary. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Prerequisite(s):** Consent of the instructor required. Grade S/U. **Repeatable:** Repeatable up to 8 credits **College Code:** CAS

GNST 298 – PLA: (Special Topic)

Credits: variable

PLA (Prior Learning Assessment) is a process which validates learning experiences that have occurred outside traditional college/university academic programs. A portfolio of evidence for demonstrating experience and competency justifies and determines the amount of credit granted. **Grade Mode:** By examination (P) **Repeatable:** Repeatable with different topics **College Code:** CAS

GNST 416 – GRE Standardized Test Preparation: Verbal

Credits: 1

Review of topics covered on the standardized GRE exam. Includes at least one full–length practice exam. **Grade Mode:** Satisfactory (S,U,I,W) **College Code:** CAS

GNST 417 – GRE Standardized Test Preparation: Quantitative

Credits: 1

Review of topics covered on the standardized GRE exam. Includes at least one full–length practice exam. **Grade Mode:** Satisfactory (S,U,I,W) **College Code:** CAS

GNST 498 – PLA: (Special Topic)

Credits: variable

PLA (Prior Learning Assessment) is a process which validates learning experiences that have occurred outside traditional college/university academic programs. A portfolio of evidence for demonstrating experience and competency justifies and determines the amount of credit granted. **Grade Mode:** By examination (P) **Repeatable:** Repeatable up to 32 credits **College Code:** CAS

GNST 499V – PLA Portfolio Development

Credits: 2

The development of a portfolio of evidence to present for Prior Learning Assessment. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

Interdisciplinary Studies

Details of departmental course offerings and course descriptions may be obtained from the department(s) involved.

IDSC 278 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 280 – Cooperative Education in _____ (subject area)

Credits: 0.5 or 1

Supervised work experience with a cooperating industry, agency, or institution. The student is supervised by his/her department. At least 175 hours of work required per credit. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Sophomore standing or above and permission of the department chair. Students must apply and be accepted one semester in advance of their planned cooperative education experiences. **Repeatable:** Repeatable up to 1 credit **College Code:** CAS

IDSC 294 – Off–Campus Study in _____

Credits: 3–15

See advisor for details. **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable up to 12 credits **College Code:** CAS

IDSC 296 – Student Missionary/Taskforce Experience

Credits: 0

\$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 380 – Cooperative Education in _____ (subject area)

Credits: 0.5 or 1

Supervised work experience with a cooperating industry, agency, or institution. The student is supervised by his/her department. At least 175 hours of work required per credit. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Sophomore standing or above and permission of the department chair. Students must apply and be accepted one semester in advance of their planned cooperative education experiences. **Repeatable:** Repeatable up to 1 credit **College Code:** CAS

IDSC 394 – Off–Campus Study in _____

Credits: 0–15

See advisor for details. **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

IDSC 456 – Integrated Science

Credits: 4

This course is designed to provide a science experience that models what science professionals do in the real world. This course will integrate content from life, physical and earth science using a project driven, problem solving approach. Laboratory and lecture experiences are integrated continuously and include a strong technology component. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

IDSC 596 – Student Missionary/Taskforce Experience

Credits: 0

\$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

Mathematics

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Emeriti

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Mission

Through teaching, research and service, the Department of Mathematics seeks to provide leadership in the mathematical sciences by preparing students with the mathematical understanding, problem-solving skills and dispositions that enable them to excel in their chosen careers; increasing mathematical and scientific knowledge through publication and presentation; supporting the broader mathematics education community; and mentoring others for generous service through a committed Christian life.

Mathematics is foundational to physics, engineering, and computer science, and is increasingly important in many fields of study such as finance, accounting, economics, biology, medicine, and environmental science. Students majoring in these and other fields will find that acquiring an additional major in mathematics or mathematical studies greatly enhances the marketability of their degree.

Special Requirements and Placement Test

Non-overlapping Credit Restrictions

Because there is substantial overlap in material covered in the following groups of courses, no student is granted credit (other than general elective credit) in more than one course from each group:

1. MATH182, 191, 195 (Calculus with Applications, Calculus I, Calculus I for Biology)
2. MATH145, 165, 166 (Reasoning with Functions, College Algebra, College Algebra for Business)

Minimum Grade for Prerequisites

Except for MATH191 and 195, the minimum grade to satisfy prerequisites is C–.

Mathematics Placement Examination (MPE) and General Education Mathematics Requirement

For more information on the MPE and General Education Mathematics Requirements follow the link. The MPE score is valid as a prerequisite for mathematics courses for 3 years after it is earned.

Behavioral Neuroscience

The Department of Mathematics is a participant in the Behavioral Neuroscience program funded by the National Science Foundation.

Bachelors

Mathematics BS

Major Requirements: 39

Required courses

- MATH 191 – Calculus I Credits: 4 or MATH 195 – Calculus I for Biology Credits 4
- MATH 192 – Calculus II Credits: 4

- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3
- MATH 355 – Discrete Mathematics Credits: 3
- MATH 315 – Linear Algebra Credits: 3 or MATH 441 – Abstract Algebra I Credits: 3
- MATH 389 – Mathematics Colloquium Credits: 0 or PHYS 277 – Physics Colloquium Credits 0 (4 semesters)
- STAT 340 – Probability Theory with Statistical Applications Credits: 3

At least 12 credits in additional courses

In consultation with a Department of Mathematics advisor, students should choose at least 12 credits from the following courses:

- MATH 271H – Honors in Mathematics Credits: 1
- MATH 315 – Linear Algebra Credits: 3
- MATH 405 – Applied Mathematics Credits: 3
- MATH 408 – Complex Analysis Credits: 3
- MATH 426 – Mathematical Modeling in Biology Credits: 3
- MATH 431 – Advanced Calculus I Credits: 3
- MATH 432 – Advanced Calculus II Credits: 3
- MATH 441 – Abstract Algebra I Credits: 3
- MATH 442 – Abstract Algebra II Credits: 3
- MATH 475 – Geometry Credits: 3
- MATH 487 – Special Topics in _____ Credits: 1–3
- MATH 495 – Independent Study Credits: 1–3

Students in a secondary teacher certification program are required to take

- MATH 375 – Secondary School Mathematics Teaching Credits: 3
- MATH 475 – Geometry Credits: 3
- STAT 285 – Elementary Statistics Credits: 3

Note:

MATH 375 and STAT 285 do not count toward the 39 major credits. A major field test in mathematics is required during the senior year.

Cognate Course—3

- CPTR 125 – Introduction to Computer Programming Credits: 3 or
- CPTR 151 – Computer Science I Credits: 4 or
- PHYS 235 – MATLAB Credits: 2–3

Mathematics Education BS

Major Requirements: 36

- MATH 191 – Calculus I Credits: 4 or MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4
- MATH 355 – Discrete Mathematics Credits: 3
- MATH 375 – Secondary School Mathematics Teaching Credits: 3
- MATH 475 – Geometry Credits: 3
- MATH 315 – Linear Algebra Credits: 3 or MATH 441 – Abstract Algebra I Credits: 3
- MATH 286 – Differential Equations Credits: 3 or MATH 426 – Mathematical Modeling in Biology Credits: 3
- MATH 389 – Mathematics Colloquium Credits: 0 or PHYS 277 – Physics Colloquium Credits: 0 (4 semesters)
- STAT 285 – Elementary Statistics Credits: 3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3

Note:

Students in an elementary teacher certification program take MATH 220 instead of MATH 375. This major is available only to those who are obtaining elementary or secondary teacher certification.

A major field test in mathematics is required during the senior year.

Cognate Course—3 credits

- CPTR 125 – Introduction to Computer Programming Credits: 3 **or**
- CPTR 151 – Computer Science I Credits: 4 **or**
- PHYS 235 – MATLAB Credits: 2–3

General Education Requirements—for Mathematics Education with Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree, see the department of Teaching, Learning & Curriculum

Note the following **specific** requirements:

Religion: 12*

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4 **and**
- a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)

Intermediate Language (4)

History:

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art (3)
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music (3)

Life/Physical Sciences:

professional degree requirements

Mathematics:

Covered in major

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3 **&**

- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1 plus two Fitness Education courses

Non–degree Majors

Mathematical Studies Major

Major Requirements: 30

Required courses:

- MATH 191 – Calculus I Credits: 4 **or** MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4
- MATH 389 – Mathematics Colloquium Credits: 0 **or** PHYS 277 – Physics Colloquium Credits: 0 (4 semesters)

At least 15 credits in additional courses

In consultation with a Department of Mathematics advisor, students will take at least 15 additional credits from the following courses:

- MATH 271H – Honors in Mathematics Credits: 1
- MATH 286 – Differential Equations Credits: 3
- MATH 315 – Linear Algebra Credits: 3
- MATH 355 – Discrete Mathematics Credits: 3
- MATH 405 – Applied Mathematics Credits: 3
- MATH 408 – Complex Analysis Credits: 3
- MATH 426 – Mathematical Modeling in Biology Credits: 3
- MATH 431 – Advanced Calculus I Credits: 3
- MATH 432 – Advanced Calculus II Credits: 3
- MATH 441 – Abstract Algebra I Credits: 3
- MATH 442 – Abstract Algebra II Credits: 3
- MATH 475 – Geometry Credits: 3
- MATH 487 – Special Topics in _____ Credits: 1–3
- MATH 495 – Independent Study Credits: 1–3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3
- CPTR 125 – Introduction to Computer Programming Credits: 3 or CPTR 151 – Computer Science I Credits: 4 or PHYS 235 – MATLAB Credits: 2–3

Note:

A major field test in mathematics is required during the senior year. This major is available only as a second major, to those taking a major in another field.

Undergraduate Minors

Mathematics Education Minor

This minor is available only to those obtaining elementary teacher certification. For more information regarding teacher certification with a minor, see the department of Teaching, Learning & Curriculum.

Minor Requirements – 20

- MATH 168 – Precalculus Credits: 4
- MATH 191 – Calculus I Credits: 4 **or** MATH 195 – Calculus I for Biology Credits: 4
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 220 – Geometry and Numbers Credits: 3
- MATH 355 – Discrete Mathematics Credits: 3
- STAT 285 – Elementary Statistics Credits: 3

Mathematics Minor

Minor Requirements – 20

- MATH 191 – Calculus I Credits: 4 **or** MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3

At least 9 credits in additional courses

Choose at least 9 credits of additional courses in consultation with a departmental advisor:

- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3
- MATH 315 – Linear Algebra Credits: 3
- MATH 355 – Discrete Mathematics Credits: 3
- MATH 405 – Applied Mathematics Credits: 3
- MATH 408 – Complex Analysis Credits: 3
- MATH 426 – Mathematical Modeling in Biology Credits: 3
- MATH 431 – Advanced Calculus I Credits: 3
- MATH 432 – Advanced Calculus II Credits: 3
- MATH 441 – Abstract Algebra I Credits: 3
- MATH 442 – Abstract Algebra II Credits: 3
- MATH 475 – Geometry Credits: 3
- MATH 487 – Special Topics in _____ Credits: 1–3
- MATH 495 – Independent Study Credits: 1–3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3

Minor Requirements for elementary or secondary certification

For more information regarding teacher certification with a minor see the department of Teaching, Learning & Curriculum. Students in a secondary teacher certification program are required to take the following courses:

- MATH 355 – Discrete Mathematics Credits: 3
- MATH 375 – Secondary School Mathematics Teaching Credits: 3
- MATH 475 – Geometry Credits: 3
- STAT 285 – Elementary Statistics Credits: 3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3
- NOTE: A major field test in mathematics is required during the senior year.
- Students in an elementary teacher certification program should take MATH 220 instead of MATH 375.

Minor in Mathematics of Economics and Finance

This minor is available only to students obtaining a degree in the School of Business Administration.

Minor Requirements – 20

- MATH 191 – Calculus I Credits: 4 **or** MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 286 – Differential Equations Credits: 3
- STAT 285 – Elementary Statistics Credits: 3
- STAT 340 – Probability Theory with Statistical Applications Credits: 3

Mathematics

MATH 091 and MATH 092 are provided for students not achieving a score of at least P2 on the Mathematics Placement Examination (MPE).

Students complete the sequence MATH091/092 by passing a set of proficiency tests in arithmetic and algebra, at which time a P2 score is awarded. When this occurs, the student has completed the Math Skill part of the General Education requirement, and is considered ready to take MATH 145, MATH 165, MATH 166 or STAT 285. Depending on the diligence and previous preparation of the student, this may occur at any time in the MATH 091/MATH 092 sequence.

MATH 091 – Arithmetic and Algebra Review I

Credits: 3

Individualized review of arithmetic and algebra skills. Algebra topics include linear, quadratic and rational equations; graphs and systems of linear equations; and polynomial operations and factoring. Students completing the sequence requirements while enrolled in MATH091 are not required to take MATH 092. This developmental course does not count toward college credit. \$ – Course or lab fee **Grade Mode:** Normal with R (A–F,I,W,R) **Recommended:** Fall, Spring **Offering:** Fall, Spring **College Code:** CAS

MATH 092 – Arithmetic and Algebra Review II

Credits: 3

Continuation of MATH091. Students not completing the sequence requirements but fulfilling attendance, participation, and progress requirements may receive an R grade requiring re–registration the next semester. This developmental course does not count toward college credit. \$ – Course or lab fee **Grade Mode:** Normal with R (A–F,I,W,R) **Prerequisite(s):** MATH091 **Offering:** Fall, Spring **College Code:** CAS

MATH 145 – Reasoning with Functions

Credits: 3

Functions given by tables, formulas, graphs, and words; inverse functions; linear, exponential, and other types of functions, such as quadratic, trigonometric, logarithmic, or power functions; rates of change and applications to science and business. Additional topics may be selected by the instructor. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P2. **Offering:** Fall, Spring **College Code:** CAS

MATH 165 – College Algebra

Credits: 3

Introduction to precalculus. Linear, quadratic, radical, and absolute value equations and inequalities; graphs of lines, parabolas, circles, ellipses and hyperbolas; composition and inverses of functions; transformations of graphs, symmetry; linear, quadratic, exponential, logarithmic, polynomial, and rational functions. Introduction to derivatives of polynomials. Applications to business and science, including interpretation of graphs and charts. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P2. **Offering:** Fall, Spring **College Code:** CAS

MATH 165V – College Algebra

Credits: 3

Introduction to precalculus. Linear, quadratic, radical, and absolute value equations and inequalities; graphs of lines, parabolas, circles, ellipses and hyperbolas; composition and inverses of functions; transformations of graphs, symmetry; linear, quadratic, exponential, logarithmic, polynomial, and rational functions. Introduction to derivatives of polynomials. Applications to business and science, including interpretation of graphs and charts. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** MPE ≥ P2 **College Code:** CAS

MATH 166 – College Algebra for Business

Credits: 3

Introduction to precalculus. Linear, quadratic, radical, and absolute value equations and inequalities; graphs of lines, parabolas, circles, ellipses and hyperbolas; composition and inverses of functions; transformations of graphs, symmetry; linear, quadratic, exponential, logarithmic, polynomial, and rational functions. Introduction to derivatives of polynomials. Applications to business and science, including interpretation of graphs and charts. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P2 **Offering:** Fall, Spring **College Code:** CAS

MATH 167 – Precalculus Trigonometry

Credits: 1

Trigonometric functions and their inverses, identities, trigonometric equations; laws of sines and cosines, vectors, applications, and selected topics. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P3 or MATH 165 or MATH 166 **College Code:** CAS

MATH 168 – Precalculus

Credits: 4

Linear, quadratic, and absolute value equations and inequalities with applications; radical equations; polynomial, rational, exponential, logarithmic, inverse, trigonometric functions; higher order equations; exponential and logarithmic equations; the unit circle, trigonometric identities and equations; Law of Sines and Cosines; vectors in the plane, polar coordinates and graphs; complex numbers and De Moivre's Theorem; conic sections. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P3 or MATH 165 or MATH 166 **Offering:** Fall, Spring **College Code:** CAS

MATH 168V – Precalculus

Credits: 4

Linear, quadratic, and absolute value equations and inequalities with applications; radical equations; polynomial, rational, exponential, logarithmic, inverse, trigonometric functions; higher order equations; exponential and logarithmic equations; the unit circle, trigonometric identities and equations; Law of Sines and Cosines; vectors in the plane, polar coordinates and graphs; complex numbers and De Moivre's Theorem; conic sections. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** MPE ≥ P3 or MATH 165 or MATH 166. **College Code:** CAS

MATH 182 – Calculus with Applications

Credits: 3

Introduction to single-variable calculus, including limits, differentiation, optimization, and integration with applications to problems in business and the social sciences. Some topics from multivariable calculus, including partial derivatives and extrema of functions of two variables. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P4 or MATH 167 or MATH 168 **College Code:** CAS

MATH 191 – Calculus I

Credits: 4

MATH191, 192 is a standard introduction to single-variable calculus. MATH 191 includes limits, continuity, derivatives, applications and integration up through substitution and integration by parts. Formal definitions of limit, derivative, and Riemann integral. Proofs of standard theorems, including the Fundamental Theorem of Calculus. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE=P5 or MATH 167 or MATH 168 with grade no lower than C. **Offering:** Fall, Spring **College Code:** CAS

MATH 192 – Calculus II

Credits: 4

Continuation of MATH191. Techniques of integration, improper integrals, applications of integrals, sequences, power series, Taylor and Maclaurin series, tests of convergence, error estimates, polar coordinates, parameterized curves, vectors, dot and cross products. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 191 or MATH 195. **Offering:** Spring/May Express **College Code:** CAS

MATH 195 – Calculus I for Biology

Credits: 4

Introduction to single-variable calculus in the context of the life sciences from the dynamical systems point of view. Limits, continuity, derivatives, integration by substitution and by parts. Formal definitions of limit, derivative, and Riemann integral. Proofs of standard theorems, including the Fundamental Theorem of Calculus. In addition to standard topics, includes research applications to biology and medicine, an introduction to mathematical models and differential equations, equilibria, stability, and eigenvalues. Equivalent to MATH191 in serving as prerequisite to higher-level courses. **Course Attribute:** Fulfills the General Education Mathematics reasoning requirement **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE=P5 or MATH 167 or MATH 168 with grade no lower than C; pre- or corequisite: BIOL 165 or BIOL 166 or consent of the instructor. **Offering:** Spring **College Code:** CAS

MATH 215 – Introduction to Linear Algebra

Credits: 3

Vectors, Euclidean n-space, matrices, systems of linear equations, determinants, eigenvalues, eigenvectors, vector spaces, and linear transformations with emphasis on applications and computation. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 182, MATH 191, or MATH 195. **Offering:** Fall **College Code:** CAS

MATH 220 – Geometry and Numbers

Credits: 3

Number systems and Euclidean geometry for elementary and middle school teachers. Topics include problem solving, reasoning and proof, computational algorithms, analysis and classification of geometric figures, geometric transformations, and other selected topics. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P2. **Offering:** Fall, odd years **College Code:** CAS

MATH 240 – Calculus III

Credits: 4

Standard introduction to multivariable calculus. Vectors and vector functions, curves and surfaces, partial derivatives, multiple integrals, line and surface integrals. Stokes', Green's, and divergence theorems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 192. **Offering:** Fall **College Code:** CAS

MATH 271H – Honors in Mathematics

Credits: 1

The study of mathematical problems where the solution depends more on insight and creativity than on routine computation. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 192 and consent of the instructor. **Repeatable:** Repeatable up to 2 credits **College Code:** CAS

MATH 286 – Differential Equations

Credits: 3

Ordinary differential equations as dynamical systems. Linear and nonlinear first order equations and systems, higher order linear equations, modeling, standard analytic and qualitative methods of solution, equilibria and stability, phase plane analysis. Computer graphing tools will be used. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 192. **Offering:** Spring **College Code:** CAS

MATH 295 – Independent Study

Credits: 1–3

Independent study of selected topics in mathematics under the supervision of a mathematics professor. Ordinarily a minimum of three hours of study per week is expected for each credit. The instructor may require written reports or oral presentations. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Consent of the instructor. **Repeatable:** Repeatable **College Code:** CAS

MATH 315 – Linear Algebra

Credits: 3

Vector spaces, eigenspaces, linear transformations, orthogonality, inner product spaces, quadratic forms, and selected topics. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 215, MATH 355. **Offering:** Spring, even years **College Code:** CAS

MATH 355 – Discrete Mathematics

Credits: 3

Selected topics in discrete mathematics, including logic, set theory, relations, functions, properties of integers, modular arithmetic, and RSA encryption. Mathematical reasoning and the writing of proofs will be emphasized. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 182, MATH 191, or MATH 195. **Offering:** Spring **College Code:** CAS

MATH 375 – Secondary School Mathematics Teaching

Credits: 3

Content, methods, and materials for secondary school mathematics teaching, including secondary mathematics content, mathematical problem solving, lesson preparation, teaching of skills and concepts, use of technology, assessment of learning, issues in teaching and learning, and other selected topics. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 355. **Offering:** Spring, odd years **College Code:** CAS

MATH 389 – Mathematics Colloquium

Credits: 0

Participation in at least 10 departmental colloquia or approved colloquia of other departments. Meets weekly, grade is based on attendance. \$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **Offering:** Fall, Spring **College Code:** CAS

MATH 405 – Applied Mathematics

Credits: 3

Solutions of first- and second-order partial differential equations and applications. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 286. **Offering:** Fall, even years **College Code:** CAS

MATH 408 – Complex Analysis

Credits: 3

Elementary complex analysis, contour integrals, complex series. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 355. **Offering:** Spring, odd years **College Code:** CAS

MATH 426 – Mathematical Modeling in Biology

Credits: 3

Theory and application of linear and nonlinear mathematical models of biological processes. Topics selected from discrete- and continuous-time deterministic and stochastic modeling, analytic solution techniques, linearization, bifurcations, chaos, computer simulation, model parameterization, and model validation. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 191 or MATH 195. **Offering:** Fall, odd years **College Code:** CAS

MATH 431 – Advanced Calculus I

Credits: 3

Theorems on continuity, differentiation, integration, and convergence; additional selected topics such as topology, differentiable manifolds, and real analysis. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 355. **Offering:** Fall, odd years **College Code:** CAS

MATH 432 – Advanced Calculus II

Credits: 3

Theorems on continuity, differentiation, integration, and convergence; additional selected topics such as topology, differentiable manifolds, and real analysis. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 355, MATH 431. **Offering:** Spring, even years **College Code:** CAS

MATH 441 – Abstract Algebra I

Credits: 3

Study of groups, rings, fields, modules, vector spaces, and algebras. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 355. **Offering:** Spring, odd years **College Code:** CAS

MATH 442 – Abstract Algebra II

Credits: 3

Study of groups, rings, fields, modules, vector spaces, and algebras. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 240, MATH 355, MATH 441. **Offering:** As needed **College Code:** CAS

MATH 475 – Geometry

Credits: 3

Axiomatic development and history of Euclidean and non-Euclidean geometries, constructions, geometric transformations, and selected topics from finite, fractal, affine, and projective geometries. Relation of these topics to secondary teaching. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 355. **Prerequisite/Corequisite:** Fall, even years **Offering:** Alternate years **College Code:** CAS

MATH 487 – Special Topics in _____

Credits: 1–3

Consult the instructor in regard to the topic to be covered. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Consent of the instructor. **Repeatable:** Repeatable with different topics **College Code:** CAS

MATH 495 – Independent Study

Credits: 1–3

Independent study of selected topics in mathematics to enable advanced students to pursue topics not offered in other scheduled courses. The student will study under the supervision of a mathematics professor whose prior approval is required. Ordinarily a minimum of three hours of study per week is expected for each credit. Grades are assigned on the basis of an instructor-selected procedure such as oral or written exams or reports. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Consent of the instructor. **Repeatable:** Repeatable **College Code:** CAS

MATH 497 – Research in Mathematics

Credits: 0–3

A research project in mathematics supervised by a faculty mentor. A minimum of 4 work hours per week is required for each credit earned and a minimum of 4 work hours per week is required for the zero-credit option. A written paper is required for both the zero-credit option and all other credit options. Students register for each semester of ongoing research. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Approval of the instructor. **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

MATH 530 – Topics in Teaching Mathematics

Credits: 2–3

A. Algebra; B. Geometry; C. Analysis; D. Applications; Consult with department chair regarding availability in any given year. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

MATH 540 – Topics in Mathematics

Credits: 2–3

Consult with the instructor in regard to the topic to be covered. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Consent of the instructor. **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

Statistics

STAT 285 – Elementary Statistics

Credits: 3

A study of basic descriptive and inferential statistics, including elementary probability and probability distributions, statistical inference involving binomial, normal, and t-distributions, and hypothesis testing. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE ≥ P2. **Offering:** Fall, Spring **College Code:** CAS

STAT 285V – Elementary Statistics

Credits: 4

A study of basic descriptive and inferential statistics, including elementary probability and probability distributions, statistical inference involving binomial, normal, and t-distributions, and hypothesis testing. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** MPE ≥ P2 **College Code:** CAS

STAT 340 – Probability Theory with Statistical Applications

Credits: 3

Probability theory and statistics for students having preparation in calculus. Topics include probability models, combinatoric problems, random variables, discrete and continuous distributions, expectation, moment generating functions, central limit theorem. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MATH 191 or MATH 195. **Offering:** Spring **College Code:** CAS

Mathematics Education

MAED 505 – Understanding Numbers and Operations for Middle Grade Educators

Credits: 2–3

This course is designed to strengthen middle school teachers' rational number knowledge and number sense. This includes the in-depth study of rational numbers and operations on rational numbers, the structure of the rational and real number systems, algorithms for computation, estimation strategies, and working with very large and very small numbers. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 510 – Exploring Algebra and Functions for Middle Grades Educators

Credits: 2–3

This course extends the middle school teachers' understanding of algebra as a symbolic language. This course moves beyond symbol manipulation to include modeling of physical situations. Students will explore algebraic, linear, and non-linear functions within the context of the course. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 515 – Data Analysis for Middle Grades Educators

Credits: 3

This course presents an integrated approach to data analysis, statistics, and probability for middle grades math teachers. Instruction focuses on specific real-world data sets and statistical investigations. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 521 – Informal Geometry and Measurement for Middle Grades Educators

Credits: 2

This course is the first of two which lead prospective mathematics teachers through a series of explorations to develop competence in geometric reasoning, including conjecture, proving, and disproving. Prospective teachers develop a deeper understanding of the role of proof in geometry. The pedagogy of this course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 522 – Formal Geometry for Middle Grades Educators

Credits: 2

This course is the second of two which lead prospective mathematics teachers through a series of explorations to develop competence in geometric reasoning, including conjecturing, proving, and disproving. Prospective teachers refine their understanding of the role of proof in geometry. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 600 – Discrete Mathematics and Number Theory for Middle Grades Educators

Credits: 2

Students investigate concepts of number theory, discrete mathematics, and logic as they apply to middle grades mathematical education. Each topic includes a study of graphic representation of concepts and applications in technology. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 610 – Mathematical Modeling for Middle Grades Educators

Credits: 4

Investigation of concepts and practices of mathematical modeling with an emphasis on application to middle grades education. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MAED 625 – Mathematical Investigations for Middle Grades Classrooms

Credits: 2

Participants investigate topics in mathematics, including probability, programming, fractals, and chaos theory. Emphasis is placed on participant understanding of these topics and their appropriate use as investigations with middle grades students. The pedagogy of the course models that of effective middle school mathematics teachers. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

MAED 630 – Seminar:_____

Credits: 1–4

Seminar in specific topics relevant to mathematics education. Each seminar examines one topic in detail. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable with different topics **College Code:** CAS

Music

Hamel Hall, Room 207
269–471–3555; FAX 269–471–6339
music@andrews.edu
Please visit the Department of Music website for additional information.

Faculty

Lilianne Doukhan, *Chair*
Carlos A. Flores
Claudio Gonzalez
Kenneth D. Logan
Alan F. Mitchell
Charles Reid
Trina Thompson
Carla L. Trynchuk
Chi Yong Yun
Stephen P. Zork

Academic Programs	Credits
BA: Music	45
BS in Music	89
BMus: Music Education	84
Teacher Certification	35+
BMus: Performance	85–93
Minor in Music	26
MA: Music	32
MMus: Conducting	32
MMus: Music Education	34
MMus: Music Ministry	35
MMus: Performance	32

Mission

To mentor students in artistic, intellectual, and character development. Faculty of the Department of Music are committed to providing a vibrant musical and learning environment to nurture artistic and creative growth in all students of music, to encourage and guide students through dynamic interaction in classroom and practical experiences as they mature into tomorrow's music professionals, and to mentor students in responsible use of their talents for service to Christ and to humanity.

Bachelor of Music curricula provide a comprehensive exposure to and experience with the performance, history, and theory of music. Students receive hands-on supervised teaching experience in studio or classroom teaching. Bachelor of Arts curricula are for students wishing to pursue concerted study in music within a liberal arts context.

Non-music majors may take courses in music or participate in music lessons or ensembles for credit or non-credit. See General Education section and course descriptions below for further clarification.

The Andrews University Department of Music has been a member of the National Association of Schools of Music since 1964. Music majors may choose to join the student chapter of Music Educators National Conference.

Enrollment

Status as an undergraduate music major is provisional until the student demonstrates academic and performance skills on an acceptable level. All first-year students must take the Freshman Theory Placement Exam and arrange for an audition with the coordinator of his/her applied area prior to being considered for acceptance as a music major. After the student successfully completes these two admission requirements the Music Department freshman advisor makes a recommendation to the music faculty concerning the student's application for admission as a music major. See the *Department of Music Student Handbook* for further information.

Student Handbook. The *Department of Music Student Handbook*, available at the Department of Music office, provides clarification of general guidelines, requirements, and standards as well as information concerning recital attendance, recital requirements, and financial aid and departmental scholarships.

Applied Music General Requirements. All music majors register in applied music for every semester in residence and until they complete their senior recital.

Applied Music Examination Requirements. All music majors participate in an applied music examination at least twice during the school year. See the *Department of Music Student Handbook* for full details.

Ensemble Requirements. All music majors must enroll in a music ensemble each semester of residence for a minimum of 8 credits.

Minimum Passing Grades. No grade lower than a C in an applied lesson, ensemble, or music class will count towards fulfillment of degree or program requirements for the music major or music minor. This includes transfer music credits.

Piano Proficiency. All music majors and minors are required to achieve an acceptable level of piano proficiency. This requirement may be met by one of the following two ways:

1) by passing the piano proficiency requirement as stated in the document **Andrews University Department of Music Information Sheet: Piano Proficiency Examination** available at the Music Office as well as at the Department of Music web page, or

2) by taking four semesters of piano instruction for credit at the Andrews University Department of Music with a minimum passing grade of a B in each semester. Students choosing the first of these two options are expected to take the Piano Proficiency Examination before the end of the second semester of their freshman year; students choosing the second option are expected to start taking piano lessons during their first year in residence. If one of these two options is not met, students will not be allowed to register for upper-division classes (with the exception of ensembles) or upper-division applied lessons until the Piano Proficiency requirement has been met.

Recital Attendance. All music majors are required to enroll in the course MUPF 489 – Recital Attendance each semester in residence. Music minors are required to enroll in this course for four (4) semesters.

Upper-division Status. Request for advancement to upper-division status is submitted by the end of the sophomore year. See the Department of Music Student Handbook for full information.

State Certification. Students planning to teach music in K–12 must take the Bachelor of Music in Music Education degree and also complete required education courses specified by the School of Education.

Denominational Certification is not automatic with state certification and is not required for graduation. Contact the certification clerk in the School of Education for full information.

Music Performance Credits

The Department of Music offers private instruction in all major instruments and voice which may fulfill music major or non-music major elective requirements. Course outlines detailing specific course content are available from the instructor. The requirements correlate with guidelines suggested by the National Association of Schools of Music as outlined in the Department of Music Student Handbook.

Bachelors

Music BA

A liberal arts degree allows one to pursue a broad range of interests while majoring in music. The BA with a major in music is viable as a double major.

Note that in order to receive the BA: Music, students must take general education requirements for the Bachelor of Arts.

Total Credits: 45

Major Requirements:

- MUCT 141 – Music Theory I: Introduction to Harmony Credits: 3
- MUCT 142 – Music Theory II: Diatonic Harmony Credits: 3
- MUCT 151 – Ear Training Laboratory I Credits: 1
- MUCT 152 – Ear Training Laboratory II Credits: 1
- MUCT 153 – Ear Training Laboratory III Credits: 1
- MUCT 154 – Ear Training Laboratory IV Credits: 1
- MUCT 241 – Music Theory III: Chromatic Harmony Credits: 3
- MUCT 242 – Music Theory IV: Chromatic to Post-Tonal Harmony Credits: 3
- MUCT 251 – Music Technology Laboratory I Credits: 1
- MUHL 258 – American and World Music Credits: 3
- MUHL 446 – Music Literature and Style (Antiquity–Renaissance) Credits: 3

- MUHL 447 – Music Literature and Style (Baroque and Classical) Credits: 3
- MUHL 448 – Music Literature and Style (20th Century and Romantic) Credits: 3
- minimum 8 credits of performance in one area which includes a 1– or 2–credit recital or project
- 8 credits of ensemble
- MUPF 489 – Recital Attendance Credits: 0 every semester
- Piano Proficiency.

Cognate:

- PHYS 225 – Sound and Waves Credits: 4 (fulfills GE Physical Science requirement)
- MURE 420 – Church Music and Hymnology Credits: 3 (fulfills GE Religion requirement)

Note:

At least one course other than ensemble or applied music must be taken in residence. A minimum of 4 credits in applied music must be taken as upper–division credits. Keyboard majors (piano or organ) must take 1 credit of MUPF405 Keyboard Accompaniment and 1 credit of MUPF410 Collaborative Piano as part of their 8 credits of ensemble. The remaining 6 credits must be taken in one of the major ensembles.

Music BS

This degree provides a strong foundation in both music and the sciences and is especially designed for those interested in pursuing professional degrees in medical fields such as medicine, or dentistry programs.

Total Credits: 89

Major Requirements: 45 Credits

- MUCT 141 – Music Theory I: Introduction to Harmony Credits: 3
- MUCT 142 – Music Theory II: Diatonic Harmony Credits: 3
- MUCT 151 – Ear Training Laboratory I Credits: 1
- MUCT 152 – Ear Training Laboratory II Credits: 1
- MUCT 153 – Ear Training Laboratory III Credits: 1
- MUCT 154 – Ear Training Laboratory IV Credits: 1
- MUCT 241 – Music Theory III: Chromatic Harmony Credits: 3
- MUCT 242 – Music Theory IV: Chromatic to Post–Tonal Harmony Credits: 3
- MUCT 251 – Music Technology Laboratory I Credits: 1
- MUHL 258 – American and World Music Credits: 3
- MUHL 446 – Music Literature and Style (Antiquity–Renaissance) Credits: 3
- MUHL 447 – Music Literature and Style (Baroque and Classical) Credits: 3
- MUHL 448 – Music Literature and Style (20th Century and Romantic) Credits: 3
- minimum 8 credits of performance in one area which includes a 1– or 2–credit recital or project.
- 8 credits of ensemble.
- MUPF 489 – Recital Attendance Credits: 0
- Piano Proficiency.
- At least one course other than ensemble or applied music must be taken in residence.
- A minimum of 4 credits in applied music must be taken as upper–division credits. Keyboard majors (piano or organ) must take 1 credit of MUPF 405 – Keyboard Accompaniment and 1 credit of MUPF 410 – Collaborative Piano as a part of their 8 credits of ensemble. The remaining 6 credits must be taken in one of the major ensembles.

Science Requirements: 38 Credits

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1

- PHYS 141 – General Physics I Credits: 4
- PHYS 142 – General Physics II Credits: 4
- BCHM 421 – Biochemistry I Credits: 4

General Education Requirements: 35 Credits

See professional program requirements and not the following specific requirements.

Fitness Education:

professional degree requirements

Social Sciences:

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3

Service:

fulfilled through professional components of the program.

Computer Literacy:

- MUCT 151 – Ear Training Laboratory I Credits: 1

Mathematics:

- MATH 168 – Precalculus Credits: 4

Life/Physical Sciences:

fulfilled through core curriculum.

Fine Arts/Humanities:

fulfilled through core curriculum.

Language/Communication:

professional degree requirements

History:

professional degree requirements.

Religion:

professional degree requirements including

- MURE 420 – Church Music and Hymnology Credits: 3

Major Electives: 6 Credits

From the music or science fields.

Music Education, Teacher Certification BMus

A degree for students seeking careers as certified K–12 teachers in pre–collegiate denominational or public schools. Students normally spend five years in residence to complete the requirements. Requires state teacher certification. First–year students must make application and consult with the certification clerk in the School of Education to keep abreast of certification requirements.

Total Credits: 84

Core Requirements–38 Credits

- MUCT 141 – Music Theory I: Introduction to Harmony Credits: 3
- MUCT 142 – Music Theory II: Diatonic Harmony Credits: 3
- MUCT 151 – Ear Training Laboratory I Credits: 1
- MUCT 152 – Ear Training Laboratory II Credits: 1
- MUCT 153 – Ear Training Laboratory III Credits: 1
- MUCT 154 – Ear Training Laboratory IV Credits: 1
- MUCT 241 – Music Theory III: Chromatic Harmony Credits: 3
- MUCT 242 – Music Theory IV: Chromatic to Post–Tonal Harmony Credits: 3

- MUCT 251 – Music Technology Laboratory I Credits: 1
- MUCT 454 – Orchestration Credits: 3
- MUCT 470 – Form Analysis Credits: 3
- MUCT 425 – Counterpoint Credits: 3 Or MUCT 430 – Composition Seminar Credits: 3
- MUHL 258 – American and World Music Credits: 3
- MUHL 446 – Music Literature and Style (Antiquity–Renaissance) Credits: 3
- MUHL 447 – Music Literature and Style (Baroque and Classical) Credits: 3
- MUHL 448 – Music Literature and Style (20th Century and Romantic) Credits: 3
- MUPF 489 – Recital Attendance Credits: 0 every semester
- Piano Proficiency

Music Education Requirements—46

- MUED 301 – Conducting I Credits: 2
- MUED 302 – Conducting II Credits: 2
- MUED 316 – Instrumental Literature Credits: 2
- MUED 317 – Choral Literature Credits: 2
- MUED 376 – Brass Methods Credits: 2
- MUED 377 – Percussion Methods Credits: 2
- MUED 378 – Vocal Methods Credits: 2
- MUED 379 – String Methods Credits: 2
- MUED 380 – Woodwind Methods Credits: 2
- MUED 458 – Music in the Elementary School Credits: 3
- MUED 459 – Music Methods and Materials Credits: 3

Choose one of the following courses

- MUED 421 – Organ Literature and Pedagogy I Credits: 3
- MUED 427 – Piano Pedagogy Credits: 3
- MUED 429 – String Pedagogy Credits: 3
- MUED 437 – Vocal Pedagogy Credits: 3
- MUPF 420 – Diction for Singers Credits: 3
- minimum 8 credits major performance which includes a 1– or 2–credit recital (wind, string, voice or key–board instrument) or project.
- minimum 3 credits minor performance (wind, string, voice or keyboard instrument).
- 8 credits of ensemble (must be in a major instrumental or choral ensemble: University Singers, Chorale, Wind Symphony or Symphony Orchestra).
- Keyboard performers must take 6 credits in major ensembles plus 1 credit each of MUPF405 Keyboard Accompaniment and MUPF410 Collaborative Piano.

General Education Requirements

See professional program requirements, see here, and note the following **specific** requirements:

Religion:

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELT400
- 4th course (see SED advisor)

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 104 – Communication Skills Credits: 3

History:

- HIST 117 – Civilizations and Ideas I Credits: 3 **or**
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

fulfilled from core curriculum

Life/Physical Sciences:

- PHYS 225 – Sound and Waves Credits: 4

Mathematics:

- MATH 145 – Reasoning with Functions Credits: 3 or higher

Computer Literacy:

fulfilled from core curriculum

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4 from SED requirements

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3 from SED requirements

Fitness Education:

- HLED 120 – Fit for Life Credits: 1 plus one Fitness Education course

Teacher Certification Requirements—35+

(School of Education)

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3
- EDTE 408 – Principles of Teaching and Learning Credits: 3
- EDTE 417 – Teaching Reading in the Secondary Content Areas Credits: 3
- EDTE 424 – Classroom Testing and Evaluation Credits: 2
- EDTE 459 – Methods for Teaching Secondary School: Area Credits: 3
- EDTE 476 – Methods for Integrating Instructional Technology Credits: 2–3
- EDTE 480 – First Days of School Experience Credits: 2
- EDTE 487 – Student Teaching Seminar Credits: 1
- EDTE 488 – Student Teaching (Level) Credits: 1–15

Performance BMus

A degree for those whose career goals focus on performance, studio or collegiate teaching and graduate school.

Total Credits: 85–93

Core Requirements—38 Credits

- MUCT 141 – Music Theory I: Introduction to Harmony Credits: 3
- MUCT 142 – Music Theory II: Diatonic Harmony Credits: 3
- MUCT 151 – Ear Training Laboratory I Credits: 1
- MUCT 152 – Ear Training Laboratory II Credits: 1
- MUCT 153 – Ear Training Laboratory III Credits: 1
- MUCT 154 – Ear Training Laboratory IV Credits: 1
- MUCT 241 – Music Theory III: Chromatic Harmony Credits: 3
- MUCT 242 – Music Theory IV: Chromatic to Post–Tonal Harmony Credits: 3
- MUCT 251 – Music Technology Laboratory I Credits: 1
- MUCT 454 – Orchestration Credits: 3
- MUCT 470 – Form Analysis Credits: 3
- MUCT 425 – Counterpoint Credits: 3 Or MUCT 430 – Composition Seminar Credits: 3
- MUHL 258 – American and World Music Credits: 3
- MUHL 446 – Music Literature and Style (Antiquity–Renaissance) Credits: 3
- MUHL 447 – Music Literature and Style (Baroque and Classical) Credits: 3
- MUHL 448 – Music Literature and Style (20th Century and Romantic) Credits: 3
- MUPF 489 – Recital Attendance Credits: 0 every semester
- Piano Proficiency

Performance—37–40

- Major instrument: 16 credits (4 credits each of MUPF 165, MUPF 265, MUPF 365, and MUPF 465).
- MUED 301, MUED 302; MUPF 420 (for voice majors only); MUPF339 (for instrumentalists only)
- Applied area literature course, applied area pedagogy course.
- Ensemble: 8 credits. Bachelor of Music degree students majoring in piano or organ performance must take 2 credits of MUPF405 Keyboard Accompaniment and 2 credits of MUPF410 Collaborative Piano. The remaining 4 credits must be taken in one of the major ensembles.
- MUPF 397 – Recital—Junior (1 credit) and MUPF 497 – Recital—Senior (2 credits).
- Attendance at major area master classes.

Cognate—

- PHYS 225 – Sound and Waves Credits: 4 (fulfills GE Life/Physical Science requirement);
- MURE 420 – Church Music and Hymnology Credits: 3 (fulfills GE Religion requirement)

Other Music Requirements—10–15

- For piano and instrumental majors only—10 credits of music electives
- For voice majors only—15 credits of languages to be selected from: French I and II (3, 3); German I and II (3, 3); and Italian I and II (3, 3)

General Education Requirements

See professional program requirements, see here, and note the following **specific** requirements:

Religion:

professional degree requirements including

- MURE 420 – Church Music and Hymnology Credits: 3

Language/Communication:

professional degree requirements

History:

professional degree requirements

Fine Arts/Humanities:

fulfilled through core curriculum

Life/Physical Sciences:

- PHYS 225 – Sound and Waves Credits: 4

Mathematics:

professional degree requirements

Computer Literacy:

- MUCT 151 – Ear Training Laboratory I Credits: 1

Service:

fulfilled through professional components of the program

Social Sciences:

professional degree requirements

Fitness Education:

professional degree requirements

Undergraduate Minors

Music Minor

Minor Requirements: – 26

- MUCT 141 – Music Theory I: Introduction to Harmony Credits: 3
- MUCT 142 – Music Theory II: Diatonic Harmony Credits: 3
- MUCT 151 – Ear Training Laboratory I Credits: 1
- MUCT 152 – Ear Training Laboratory II Credits: 1
- MUCT 153 – Ear Training Laboratory III Credits: 1
- MUCT 241 – Music Theory III: Chromatic Harmony Credits: 3
- MUHL 258 – American and World Music Credits: 3
- MUHL 447 – Music Literature and Style (Baroque and Classical) Credits: 3
- MUHL 448 – Music Literature and Style (20th Century and Romantic) Credits: 3
- minimum 3 credits of performance in one area
- 2 credits of ensemble
- MUPF 489 – Recital Attendance Credits: 0 (for a minimum of three semesters).
- Piano Proficiency

Masters

Conducting MMus

Total Credits: 32+

Core Requirements – 13

- MUCT 535 – Analytical Techniques I Credits: 2
- MUCT 536 – Analytical Techniques II Credits: 2
- MUHL 695 – Bibliography and Research in Music Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 519 – Studies in 20th Century Music Credits: 2
- MUED 648 – Workshop Credit: 1

Additional courses—min. 19

Choral

- MUPF 506 – Advanced Conducting Credits: 1–3 (9 credits required: 8 in major area and 1 in related area)
- MUPF 575 – Recital Credits: 1–2 (2 credits required for this degree)
- MUED 564 – Score Reading Credits: 2
- MUED 437 – Vocal Pedagogy Credits: 3
- MUPF 420 – Diction for Singers Credits: 3
- MUXX – Music Electives Credits: 0–6
- MUPF XXX – Ensemble (four semesters for 0 credits each) Credits: 0
- MUPF 489 – Recital Attendance Credits: 0
- MUED 655 – Practical Training Credits: 0
- MUHL 670 – Comprehensive Exam Credits: 0

Instrumental:

see above for requirements

- MUPF 506 – Advanced Conducting Credits: 1–3 (9 credits required: 8 in major area and 1 in related area)
- MUPF 575 – Recital Credits: 1–2
- MUED 564 – Score Reading Credits: 2
- MUPF 420 – Diction for Singers Credits: 3
- MUED – Pedagogy or Music Education course: Credits 3
- MUXX – Electives: Credits: 0–6
- MUPF 489 – Recital Attendance Credits: 0
- MUED 655 – Practical Training Credits: 0

- MUHL 670 – Comprehensive Exam Credits: 0

Music Education MMus

Students majoring in music education must qualify for a state teaching certificate prior to conferral of degree.

Total Credits: 34+

Core Requirements – 13

- MUCT 535 – Analytical Techniques I Credits: 2
- MUCT 536 – Analytical Techniques II Credits: 2
- MUHL 695 – Bibliography and Research in Music Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 519 – Studies in 20th Century Music Credits: 2
- MUED 648 – Workshop Credit: 1

Music Education Core & One Track: 21+ Credits

Music Education Core – 12 Credits

- MUED 515 – Introduction to Research in Music Education Credits: 3
- MUED 521 – Historical and Philosophical Foundations of Music Education Credits: 3
- MUED 530 – Current Issues and Trends in Music Education Credits: 3
- MUED XXX – Area Literature or Area Pedagogy course* Credits: 3
- MUPF XXX – Ensemble (four semesters for 0 credits each)
- MUED 655 – Practical Training Credits: 0
- MUPF 489 – Recital Attendance Credits: 0
- MUHL 670 – Comprehensive Exam Credits: 0

*Students who took these course at AU will substitute with electives.

Practice Oriented Track – 9 Credits

- MUPF 506 – Advanced Conducting Credits: 1–3
- MUPF 560 – Applied Music Study in Private Lessons (major performance) Credits: 1–4 (6 credits required for this degree.)
- MUPF 575 – Recital Credits: 1–2 (2 credits required for this course.)
- MUXX – Music Electives Credits: 0–3

Research Oriented Track – 9 Credits

- MUPF 506 – Advanced Conducting Credits: 1–3
- MUXX – Music Electives Credits: 0–5
- MUHL 699 – Master's Thesis Credits: 6 **OR** MUHL 698 – Project Credits: 4

Music MA

Total Credits: 32+

Core Requirements – 13

- MUCT 535 – Analytical Techniques I Credits: 2
- MUCT 536 – Analytical Techniques II Credits: 2
- MUHL 695 – Bibliography and Research in Music Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 519 – Studies in 20th Century Music Credits: 2
- MUED 648 – Workshop Credit: 1

Additional courses—19

- MUPF 500 – Applied Music Study in Private Lessons (minor performance) Credits: 1–3 (2–8 credits required for this degree)
- MUED XXX – Music Education: Credit 3
- MUXX – Thesis/Project/Recital: Credits: 2–6

- MUXX – Music Electives: Credits: 6–12
- MUPF XXX – Ensemble (four semesters for 0 credits each): Credit: 0
- MUPF 489 – Recital Attendance Credits: 0
- MUED 655 – Practical Training Credits: 0
- MUHL 670 – Comprehensive Exam Credits: 0

Note(s):

Students who plan to enter a doctoral program in musicology or who plan to teach music history and literature should elect the thesis option and fulfill a language requirement of reading proficiency in French or German.

Music Ministry MMus

Total Credits: 35+

Core Requirements – 13

- MUCT 535 – Analytical Techniques I Credits: 2
- MUCT 536 – Analytical Techniques II Credits: 2
- MUHL 695 – Bibliography and Research in Music Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 519 – Studies in 20th Century Music Credits: 2
- MUED 648 – Workshop Credit: 1

Music Components—29+

Sacred Music—7–11

- MURE 590 – Ministry of Music Practicum Credits: 1+1 (with portfolio)
- MUPF 506 – Advanced Conducting Credits: 1–3 (4–6 credits required for this degree.)
- CHMN 523 – Worship: Word and Music Credits: 2–3 (2 credits required for this course.)
- MURE 520 – Hymnology and Church Music Credits: 2

Other Studies in Music – 7+

- MUPF 500 – Applied Music Study in Private Lessons (minor performance) Credits: 1–3 (2–6 credits required for this degree.)
- MUPF 500 Organ (1)
- MUXX – Music Electives Credits: 2–6
- MUPF XXX – Ensemble (4 semesters: 2 choral & 2 student choice) Credits: 0
- MUPF 489 – Recital Attendance Credits: 0
- MUED 655 – Practical Training Credits: 0
- MUHL 670 – Comprehensive Exam Credits: 0

Seminary Studies—4

- CHMN 527 – Church Leadership and Administration Credits: 2–3 (2 credits required for this course.)
- DSRE 534 – Ministry to Youth and Young Adults Credits: 2–3 (2 credits required for this course.) **OR** CHMN 552 – Foundations of Pastoral Ministry Credits: 2

Thesis/Project/Recital Requirement

- This requirement for an MA in music, MA in music ministry or MMus in music education may be met by one of the following:
- A thesis—6 credits of MUHL699 and/or EDRM505.
- Two projects—2 credits of MUHL698 for each project.
- A credit recital—2 credits plus a minimum of 6 credits of applied music.
- One project plus a one-credit recital—2 credits of MUHL698 for the project plus a minimum of 4 credits of applied music.

Performance MMus

Total Credits: 32+

Core Requirements – 13

- MUCT 535 – Analytical Techniques I Credits: 2
- MUCT 536 – Analytical Techniques II Credits: 2
- MUHL 695 – Bibliography and Research in Music Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 524 – Music Literature Seminar Credits: 2
- MUHL 519 – Studies in 20th Century Music Credits: 2
- MUED 648 – Workshop Credit: 1

Additional courses—min. 19

- MUPF 538 – Chamber Music Ensembles Credits: 0 or 1 (This course required for string majors only for 1–3 credits.)
- MUPF 575 – Recital Credits: 1–2 (2 credits required for this degree)
- MUPF 420 – Diction for Singers Credits: 3 (This course required for voice majors only.)*
- MUED XXX – Area Literature* Credits: 3
- MUED XXX – Area Pedagogy* Credits: 3
- MUXX – Music Electives Credits: 0–6
- MUPF 655 – Practical Training Credits: 0
- MUPF XXX – Ensemble (four semesters for 0 credits each)
- MUPF 560 – Applied Music Study in Private Lessons (major performance) Credits: 1–4 (8 credits required for this degree)
- MUPF 489 – Recital Attendance Credits: 0
- MUED 655 – Practical Training Credits: 0
- MUHL 670 – Comprehensive Exam Credits: 0

*Students who took these courses at AU will substitute with music electives.

Music Composition & Theory

MUCT 141 – Music Theory I: Introduction to Harmony

Credits: 3

Review of music fundamentals, including the music vocabulary, keys and rhythm, as well as the basic elements of melody and harmony (scales, intervals, and triads) and a basic study of the principles of chord progression utilizing triads in root position. Requires concurrent enrollment in MUCT 151. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 142 – Music Theory II: Diatonic Harmony

Credits: 3

Study of the principles of voice leading and chord progression in applied four–part harmonization. Emphasis will be placed on interpretation and realization of Figured Basses, four–part harmonization using triads and seventh chords in root position as well as in inversions, the study and use of non–harmonic tones, and the dominant seventh chord as well as the other nondominant seventh chords. Requires concurrent enrollment in MUCT 152. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUCT 141. **College Code:** CAS

MUCT 151 – Ear Training Laboratory I

Credits: 1

Aural skill with melodies, rhythms, intervals, chords and harmonic progressions. Activities include sight reading, error correction, transcription and improvisation of tonal music. Requires concurrent enrollment in MUCT 141, MUCT 142, MUCT 241 and MUCT 242. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 152 – Ear Training Laboratory II

Credits: 1

Aural skill with melodies, rhythms, intervals, chords and harmonic progressions. Activities include sight reading, error correction, transcription and improvisation of tonal music. Requires concurrent enrollment in MUCT 141, MUCT 142, MUCT 241 and MUCT 242. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 153 – Ear Training Laboratory III

Credits: 1

Aural skill with melodies, rhythms, intervals, chords and harmonic progressions. Activities include sight reading, error correction, transcription and improvisation of tonal music. Requires concurrent enrollment in MUCT 141, MUCT 142, MUCT 241 and MUCT 242. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 154 – Ear Training Laboratory IV

Credits: 1

Aural skill with melodies, rhythms, intervals, chords and harmonic progressions. Activities include sight reading, error correction, transcription and improvisation of tonal music. Requires concurrent enrollment in MUCT 141, MUCT 142, MUCT 241 and MUCT 242. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 241 – Music Theory III: Chromatic Harmony

Credits: 3

Theoretical and practical study of the entire spectrum of chromatic harmony practices with emphasis in composition and analysis. Requires concurrent enrollment in MUCT 153. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUCT 142. **College Code:** CAS

MUCT 242 – Music Theory IV: Chromatic to Post–Tonal Harmony

Credits: 3

Continuation of Music Theory III with an introduction to the compositional practices and techniques employed by composers of the Impressionistic Period and the Twentieth Century. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** Requires concurrent enrollment in MUCT 154. **Prerequisite(s):** MUCT 241. **College Code:** CAS

MUCT 251 – Music Technology Laboratory I

Credits: 1

Acquaintance with current technological resources in music. Emphasis in computer notation systems, sequencing and MIDI systems. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 252 – Music Technology Laboratory II

Credits: 1

Acquaintance with current technological resources in music. Emphasis in computer notation systems, sequencing and MIDI systems. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 425 – Counterpoint

Credits: 3

Historical overview of counterpoint with emphasis on the practice and analysis of 18th–century contrapuntal techniques. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, odd years **College Code:** CAS

MUCT 430 – Composition Seminar

Credits: 3

Study of the compositional practices and techniques employed by composers of the Impressionistic Period and the Twentieth Century followed by composition exercises leading to the creation of new musical works. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

MUCT 454 – Orchestration

Credits: 3

Scoring for chamber groups, larger ensembles and full orchestra. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUCT 470 – Form Analysis

Credits: 3

The origin and meaning of form: motives, phrases, and periods with elementary and combined binary and ternary forms, rondo and sonata–allegro. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

MUCT 535 – Analytical Techniques I

Credits: 2

Detailed comprehensive analysis of representative works from literature of the tonal period. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUCT 536 – Analytical Techniques II

Credits: 2

Detailed comprehensive analysis of representative works from literature of the post-tonal and 20th Century periods. Music Education **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

Music Education

MUED 301 – Conducting I

Credits: 2

The theory and application of basic conducting principles. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUED 302 – Conducting II

Credits: 2

The application of theory and techniques unique to the conducting of both choral and instrumental ensembles. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUED301 or equivalent. **Offering:** Spring, odd years **College Code:** CAS

MUED 316 – Instrumental Literature

Credits: 2

Score analysis; score preparation and programming; study of significant band, orchestra and ensemble literature. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUED302 or equivalent. **Offering:** Spring, even years **College Code:** CAS

MUED 317 – Choral Literature

Credits: 2

Score analysis; score preparation and programming; study and survey of significant choral literature. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUED302 or equivalent. **Offering:** Fall, odd years **College Code:** CAS

MUED 376 – Brass Methods

Credits: 2

Fundamentals of performing and teaching brass instruments with emphasis on their use in band and orchestra. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

MUED 377 – Percussion Methods

Credits: 2

Fundamentals of performing and teaching percussion—instruments with emphasis on their use in band and orchestra. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

MUED 378 – Vocal Methods

Credits: 2

Fundamentals of performing and teaching voice with emphasis on their use in choir. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUED 379 – String Methods

Credits: 2

Fundamentals of performing and teaching string instruments with emphasis on their use in orchestra. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, odd years **College Code:** CAS

MUED 380 – Woodwind Methods

Credits: 2

Fundamentals of performing and teaching woodwind instruments with emphasis on their use in band and orchestra. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUED 421 – Organ Literature and Pedagogy I

Credits: 3

A chronological survey of organ literature and the development of the instrument along with study of organ teaching and emphasis on keyboard and pedal technique, interpretation, sight reading, and teaching repertoire. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

MUED 422 – Organ Literature and Pedagogy II

Credits: 3

Continuation of MUED 421. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUED 421 or permission of instructor. **Offering:** Alternate years **College Code:** CAS

MUED 426 – Piano Literature

Credits: 3

A survey of clavichord, harpsichord and piano literature and style, and the evolution of these instruments. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

MUED 427 – Piano Pedagogy

Credits: 3

The study and review of the materials and methods of private and class piano instruction. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUED 428 – String Literature

Credits: 3

The study of string literature and style from the Baroque era to the present, including significant solo, chamber and orchestral works. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, odd years **College Code:** CAS

MUED 429 – String Pedagogy

Credits: 3

The study of beginning through advanced pedagogical techniques, including tone production, dexterity, fingerings and bowings. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUED 430 – Topics in _____

Credits: 1–3

A study of selected topics related to the music profession. Consult current class schedule for topics covered each year. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

MUED 436 – Vocal Literature

Credits: 3

Solo vocal literature representing significant repertoire from the primary eras of music history; Italian, French and German Literature. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

MUED 437 – Vocal Pedagogy

Credits: 3

A comprehensive study of current methodology directed toward the achievement of artistic singing and productive studio procedures. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

MUED 438 – Workshop

Credits: 1–3

\$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

MUED 458 – Music in the Elementary School

Credits: 3

Methods and materials used in musical programs of the elementary grades including rhythm, singing, playing, and listening activities. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

MUED 459 – Music Methods and Materials

Credits: 3

Methods and materials for the teaching of music in the secondary school with emphasis on the organization and administration of choral and instrumental ensembles. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

MUED 485 – Practicum in Conducting

Credits: 1

Individual attention and instruction with one of the larger ensembles. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MUED304 or 305 and permission of teacher. **Repeatable:** Repeatable **College Code:** CAS

MUED 515 – Introduction to Research in Music Education

Credits: 3

Research techniques appropriate to research in music education, principles of research design, organization of the research report, and critical examination of representative research studies in music education. Emphasis on developing knowledgeable and discriminating readers and interpreters of completed research. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, odd years **College Code:** CAS

MUED 518 – Instrumental Methods

Credits: 3

Comprehensive study of current methodology, emphasizing one of the following areas: woodwinds, brass, percussion, strings. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUED 521 – Historical and Philosophical Foundations of Music Education

Credits: 3

Study of the philosophy and practice of Music Education from the 1920s to the present. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, odd years **College Code:** CAS

MUED 530 – Current Issues and Trends in Music Education

Credits: 3

Study of current issues and trends in music education. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, even years **College Code:** CAS

MUED 564 – Score Reading

Credits: 2

Development of keyboard skills in score reading. Graded choral and orchestral literature from two–stave four–part writing to open score is practiced. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **Offering:** Fall, odd years **College Code:** CAS

MUED 648 – Workshop

Credits: 1–3

\$ – Course or lab fee **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

MUED 655 – Practical Training

Credits: 0

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

Music History & Literature

MUHL 214 – Enjoyment of Music

Credits: 3

An opportunity to acquire a better appreciation of classical music —to discover how church music, folk songs, jazz, spirituals, gospel, rock and roll, and pop music fit into the broad spectrum of classical music from 1000 A.D. to the present day. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUHL 214V – Enjoyment of Music

Credits: 3

An opportunity to acquire a better appreciation of classical music —to discover how church music, folk songs, jazz, spirituals, gospel, rock and roll, and pop music fit into the broad spectrum of classical music from 1000 A.D. to the present day. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

MUHL 258 – American and World Music

Credits: 3

A study of America's musical past with emphasis on the historical and social context of native, folk, sacred, popular, and classical music, and their interaction. An introduction to musical traditions from around the world with an investigation of their musical languages and the social context in which they happen. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUHL 446 – Music Literature and Style (Antiquity–Renaissance)

Credits: 3

Historical development of musical styles and the relationship between music and social trends of the period. Visual and aural analysis of representative compositions and introduction to biographical and bibliographical materials. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUHL 447 – Music Literature and Style (Baroque and Classical)

Credits: 3

See MUHL 446. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUHL 448 – Music Literature and Style (20th Century and Romantic)

Credits: 3

See MUHL 446. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUHL 519 – Studies in 20th Century Music

Credits: 2

A survey of 20th–century repertoire from its late19th–century origins to the present. Emphasis is placed on compositional and stylistic trends and surrounding artistic climates. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUHL 524 – Music Literature Seminar

Credits: 2

A study of selected major works from representative period(s)/composer(s). Provides a synthesis of musicological, historical, analytical, and interpretational techniques. Different literature covered each semester. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Advanced–level survey courses or demonstrated equivalent. **Repeatable:** Repeatable with different topics **College Code:** CAS

MUHL 650 – Project Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUHL 655 – Program Continuation

Credits: 0

Students may register for this non–credit continuation course to maintain active status. For additional information on active status see Admission Status Categories in the School of Graduate Studies and Research in the bulletin. Registration does not indicate full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUHL 665 – Comprehensive Exam Preparation

Credits: 0

Advisor approval required. Registration for this title indicates fulltime status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUHL 670 – Comprehensive Exam

Credits: 0

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **College Code:** CAS

MUHL 695 – Bibliography and Research in Music

Credits: 1–2

An introduction to the tools and materials available in music research, with a critical analysis of sources. An examination of the goals and methods of research in music and an introduction to scholarly writing. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable up to 2 credits **College Code:** CAS

MUHL 697 – Independent Study and Research in Music

Credits: 1–3

Grade Mode: Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

MUHL 698 – Project

Credits: 2

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

MUHL 699 – Master's Thesis

Credits: 6

Grade Mode: Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

Music Performance

MUPF 160 – Music Class—First-year

Credits: 1

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable **Special Approval:** Classes open to all students upon permission of the instructor. **College Code:** CAS

MUPF 164 – Applied Music—First-year

Credits: 1–2

Applied Music Non–Performance Major/Minor The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF489. Non–music students may register for music lessons. These courses do not apply toward fulfilling music major degree requirements without specific music faculty action. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 165 – Applied Music—First-year

Credits: 1–3

The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF489. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 170 – Applied Music—First-year

Credits: 1–2

For non–music students \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 260 – Music Class—Sophomore

Credits: 1

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable **Special Approval:** Classes open to all students upon permission of the instructor. **College Code:** CAS

MUPF 264 – Applied Music—Sophomore

Credits: 1–2

Applied Music Non–Performance Major/Minor The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF 489. Non–music students may register for music lessons. These courses do not apply toward fulfilling music major degree requirements without specific music faculty action. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 265 – Applied Music—Sophomore

Credits: 1–3

The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF 489. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 270 – Applied Music—Sophomore

Credits: 1–2

For non–music students \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 330 – University Orchestra

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 334 – Wind Symphony

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 335 – I Cantori

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 336 – University Chorale

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 339 – Chamber Music Ensembles

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 345 – Sinfonietta

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 346 – Men's Chorus

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 347 – Ladies' Chorus

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W)

Repeatable: Repeatable **College Code:** CAS

MUPF 360 – Music Class—Junior

Credits: 1

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable **Special Approval:** Classes open to all students upon permission of the instructor. **College Code:** CAS

MUPF 364 – Applied Music—Junior

Credits: 1–2

Applied Music Non–Performance Major/Minor The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF489. Non–music students may register for music lessons. These courses do not apply toward fulfilling music major degree requirements without specific music faculty action. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 365 – Applied Music—Junior

Credits: 1–3

The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF 489. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 370 – Applied Music—Junior

Credits: 1–2

For non–music students \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 385 – University Singers

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 396H – Honors Music Recital (Junior)

Credits: 1

A memorized recital under the supervision of a music honors committee. Research document on compositions performed is required. May be taken in lieu of certain required and applied music courses. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUPF 397 – Recital—Junior

Credits: 1

Recitals **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

MUPF 405 – Keyboard Accompaniment

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 405 – Keyboard Accompaniment

Credits: 1

Accompanying of instrumental and vocal soloists. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 410 – Collaborative Piano

Credits: 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 410 – Collaborative Piano

Credits: 1

Coaching and instruction in collaborative piano; the study of piano ensemble repertoire, such as piano duos, piano duets, chamber music and other forms featuring the piano as a collaborative instrument. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 420 – Diction for Singers

Credits: 3

The study of the rules for pronunciation and diction of the major languages used by singers. Study of Italian, French, German and Latin with application of International Phonetic Alphabet symbols. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

MUPF 450 – Project Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full–time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 460 – Music Class—Senior

Credits: 1

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable **Special Approval:** Classes open to all students upon permission of the instructor. **College Code:** CAS

MUPF 464 – Applied Music—Senior

Credits: 1–2

Applied Music Non–Performance Major/Minor The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF 489. Non–music students may register for music lessons. These courses do not apply toward fulfilling music major degree requirements without specific music faculty action. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 465 – Applied Music—Senior

Credits: 1–3

The private study of the performance repertoire and technique of the given instrument or voice and the study of performance–related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance–related skills study includes the development of basic–level skills in improvisation and the study of sight–reading. Each of these courses require concurrent enrollment in MUPF 489. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 470 – Applied Music—Senior

Credits: 1–2

For non–music students \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W)

Repeatable: Repeatable **College Code:** CAS

MUPF 478 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee
Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 489 – Recital Attendance

Credits: 0

Attendance of on– and off–campus live musical events. Required for all music majors each semester in full–time residence and four (4) semesters for music minors. Students are required to attend nine (9) live musical events each semester in order to pass the course, at least seven (7) of which must be sponsored by the Department of Music. Students may count ensemble concerts in which they perform, but note that multiple performances of a given concert may only be counted as one (1) concert. Music majors and minors who do not achieve a “pass” for one (1) semester may risk losing their standing as a music major or minor. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Satisfactory (S,U,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 490 – Recital Continuation

Credits: 0

Recitals **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 495 – Independent Study

Credits: 1–3

In consultation with a member of the music faculty, a student may choose independent study in a special area of music. A brief outline of the study to be pursued must be submitted to the department chair. A minimum of 30 hours of work is required for each credit. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Permission of the department chair required. **Repeatable:** Repeatable **College Code:** CAS

MUPF 496H – Honors Music Recital (Senior)

Credits: 2

A memorized recital under the supervision of a music honors committee. A research document on compositions performed is required. May be taken in lieu of certain required and applied music courses. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUPF 497 – Recital—Senior

Credits: 1–2

Recitals **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 2 credits **College Code:** CAS

MUPF 499 – Senior Project

Credits: 1–2

Regular grading. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MUPF 500 – Applied Music Study in Private Lessons (minor performance)

Credits: 1–3

May also be chosen by non–music majors. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 505 – Keyboard Accompaniment

Credits: 0 or 1

Accompanying of instrumental and vocal soloists. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 506 – Advanced Conducting

Credits: 1–3

Choral/Instrumental Section 01: Study of the art and techniques of conducting relative to the score and to the chorus as a performance instrument. Section 02: Study of the art and techniques of conducting relative to the score and to the orchestra or band as performance instruments. Major works are studied and conducted. Each of these courses require concurrent enrollment in MUPF 489. MUPF 510 – Collaborative Piano and instruction in collaborative piano; the study of piano ensemble repertoire, such as piano duos, piano duets, chamber music, and other forms featuring the piano as a collaborative instrument. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 510 – Collaborative Piano

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 515 – Recital Accompanying

Credits: 0 or 1

Preparation and public performance of a pianist/soloist recital in which the piano is the principal medium of accompaniment. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 525 – University Orchestra

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Ensemble (A–F,I,NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 526 – University Wind Symphony

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 527 – University Choral

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Ensemble (A–F,I,NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 528 – University Singers

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Ensemble (A–F,I,NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 535 – I Cantori

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 537 – Ladies' Chorus

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Ensemble (A–F,I,NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 538 – Chamber Music Ensembles

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Ensemble (A–F,I,NC,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 545 – Sinfonietta

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 546 – Men's Chorus

Credits: 0 or 1

Department of Music ensembles are open to all students upon permission of the instructor. Ensembles seek to expand the intellectual, psychological and spiritual horizons of the student. Ensemble credit may fulfill part of the General Education arts/ humanities breadth requirement. Permission to add or drop an ensemble must be approved by the respective instructor. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 550 – Private Instruction in _____

Credits: 1–4

Private instruction in composition. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 560 – Applied Music Study in Private Lessons (major performance)

Credits: 1–4

Style and development of repertoire; preparation for public performance. Each of these courses require concurrent enrollment in MUPF489. \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

MUPF 575 – Recital

Credits: 1–2

Grade Mode: Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable **College Code:** CAS

MUPF 640 – Recital Continuation

Credits: 0

Research and Specialized Study **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

Music–Religious

MURE 420 – Church Music and Hymnology

Credits: 3

The biblical basis for and the theological implications involved in church–music practice with emphasis on the development of principles for guidance in the use and selection of available literature. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

MURE 485 – The Church Organ and Service Playing

Credits: 2

The development of the organ and organ literature; a practical study of church services, including organ registrations for choral music, vocal solos, and hymn playing; discussion of the organ interlude and improvisation. Concurrent enrollment in applied music—organ is recommended. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

MURE 520 – Hymnology and Church Music

Credits: 2

The understanding and appreciation of the heritage and development of Christian hymn singing and Church music repertoire, in their respective liturgical and theological contexts. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring, even years **College Code:** CAS

MURE 590 – Ministry of Music Practicum

Credits: 1+1

A two–semester internship as minister of music or minister of music assistant in a selected church in the local area. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable up to 2 credits **College Code:** CAS

Physics

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269–471–3430
physics@andrews.edu
http://physics.andrews.edu

Faculty

Margarita C. K. Mattingly, *Chair*
Gary W. Burdick
G. Brendan Cross
Mickey D. Kutzner
Tiffany Z. Summerscales
Stephen C. Thorman

Emeriti

Ronald L. Johnson, Director, Physics Enterprises
Robert E. Kingman
S. Clark Rowland

Mission

Advance the appreciation, understanding and application of physics in the context of personal integrity and service, scientific rigor, and Seventh-day Adventist faith.

Strategies

- Create an environment of scholarly inquiry, learning, and creativity
- Develop technical, analytical, and critical thinking skills
- Provide opportunities for intellectual independence, collaboration, and outreach
- Promote personal wholeness, integrity, balance, and spiritual well-being

Student and Faculty Goals

- Understand physics ideas, principles and interpretation, supporting and participating in research and education
- Measure, analyze and model physical phenomena, lending insight to other disciplines and professions
- Communicate scholarship in written and oral form, networking with scholarly, faith, and civic communities
- Connect scientific and religious world views, serving the Seventh-day Adventist Church and society

Physics describes the world in terms of matter and energy and relates phenomena to fundamental law using mathematical representations. Its scope includes systems that range in size from the sub-nuclear to the entire cosmos.

The BS: Physics program supports and enhances professional careers in all the physical sciences, engineering, and the life sciences. Its emphasis on problem-solving also provides a foundation for careers in medicine, business, law, and government.

The BS: Biophysics program prepares the graduate for direct entry into the workforce or advanced studies in medical and bioengineering fields as well as biophysics.

The BS: Physics Education program prepares the graduate for a career in secondary teaching.

The Major in Physics Studies is an add-on degree program that complements any baccalaureate degree without incurring additional general education requirements. It strengthens and expands marketability and interdisciplinary opportunities.

A Minor in Physics complements any baccalaureate degree. It is the minimum requirement for secondary teaching certification in physics. All physics majors and minors desiring certification should consult with the School of Education throughout their program.

Bachelors

Biophysics BS

Offered by the biology and physics departments

- BIOL 165 – Foundations of Biology Credits: 5 or 4
- BIOL 166 – Foundations of Biology Credits: 5 or 4
- BIOL 371 – Genetics Credits: 3
- BIOL 372 – Cell and Molecular Biology Credits: 3 **or**
- BCHM 421 – Biochemistry I Credits: 4 *

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1
- PHYS 277 – Physics Colloquium Credits: 0 **
- PHYS 377 – Advanced Physics Laboratory I Credits: 1
- PHYS 411 – Theoretical Mechanics I Credits: 2.5
- PHYS 416 – Biophysics Credits: 2.5

- PHYS 430 – Thermodynamics and Statistical Mechanics Credits: 2.5 **or**
- CHEM 431 – Physical Chemistry I Credits: 3 **and**
- CHEM 441 – Physical Chemistry Laboratory I Credits: 1

- PHYS 431 – Electricity and Magnetism I Credits: 3
- PHYS 495 – Physics Research Credits: 0–3 (a minimum of 1 credit)

Note:

*A student may earn a minor in chemistry by selecting BCHM 421 or CHEM 431 and CHEM 441.

**PHYS 277 is required every semester. MATH 389 may substitute for PHYS 277.

Cognate Courses:

- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CHEM 231 – Organic Chemistry I Credits: 3
- CHEM 232 – Organic Chemistry II Credits: 3
- CHEM 241 – Organic Chemistry Laboratory I Credits: 1
- CHEM 242 – Organic Chemistry Laboratory II Credits: 1
-
- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4
-
- MATH 192 – Calculus II Credits: 4
- MATH 286 – Differential Equations Credits: 3

Recommended Electives:

- BCHM 422 – Biochemistry II Credits: 3
- BCHM 430 – Biochemistry Lab Credits: 1
- CHEM 432 – Physical Chemistry II Credits: 3
- CHEM 442 – Physical Chemistry Laboratory II Credits: 1
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4

Senior Thesis.

All Physics and Biophysics majors do some original research in collaboration with an established physicist on-campus or at another university, industrial or national laboratory. If students enroll for 3 credits of PHYS 495 or HONS 497H, they may prepare a Senior Thesis. Undergraduate Research Scholarships are available through the Office of Research & Creative Scholarship when students collaborate with Andrews Physics faculty.

Total Credits: 40

Physics BS

Major Requirements: – 40

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1
- PHYS 277 – Physics Colloquium Credits: 0 *
- PHYS 377 – Advanced Physics Laboratory I Credits: 1

- PHYS 411 – Theoretical Mechanics I Credits: 2.5
- PHYS 430 – Thermodynamics and Statistical Mechanics Credits: 2.5
- PHYS 431 – Electricity and Magnetism I Credits: 3
- PHYS 477 – Advanced Physics Laboratory II Credits: 1
- PHYS 481 – Quantum Mechanics I Credits: 3
- PHYS 495 – Physics Research Credits: 0–3 (a minimum of 1 credit)
- plus an additional 15 credits numbered 300 and above

Note:

* PHYS 277 is required every semester. MATH 389 may substitute for PHYS 277.

Cognate Courses:

- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 215 – Introduction to Linear Algebra Credits: 3
- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3
- CHEM 131 – General Chemistry I Credits: 4
- CHEM 132 – General Chemistry II Credits: 4
- CPTR 125 – Introduction to Computer Programming Credits: 3 **or**
- CPTR 151 – Computer Science I Credits: 4 **or**
- PHYS 235 – MATLAB Credits: 2–3

Secondary–teaching Certification:

Physics majors desiring secondary–teaching certification should also consult with the School of Education. BIOL 165 is required in addition to all other cognates. Program is certified by the Michigan Department of Education. Accreditation by the National Science Teachers Association is pending.

Physics Education BS

Major Requirements: – 30

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1
- PHYS 277 – Physics Colloquium Credits: 0 *
- PHYS 377 – Advanced Physics Laboratory I Credits: 1
- PHYS 411 – Theoretical Mechanics I Credits: 2.5
- PHYS 430 – Thermodynamics and Statistical Mechanics Credits: 2.5
- PHYS 431 – Electricity and Magnetism I Credits: 3
- PHYS 481 – Quantum Mechanics I Credits: 3
- PHYS 495 – Physics Research Credits: 0–3 (a minimum of 1 credit)
- plus an additional 6 credits numbered 300 and above in consultation with advisor.

Note:

*PHYS 277 is required every semester. MATH 389 may substitute for PHYS 277.

Cognate Courses:

- MATH 191 – Calculus I Credits: 4 **or**
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3
- CHEM 131 – General Chemistry I Credits: 4
- BIOL 165 – Foundations of Biology Credits: 5 or 4

Note:

This major is available only to those who are obtaining secondary teacher certification. Program is certified by the Michigan Department of Education. Accreditation by the National Science Teachers Association is pending.

General Education Requirements—for Physics and Physics Education with Secondary Certification

For more information regarding General Education Requirements or Secondary Certification with a BA or BS degree, see the department of Teaching, Learning & Curriculum

Religion: 12*

- RELT 100 – God and Human Life Credits: 3
- RELT 225 – Doctrines of the Adventist Faith Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- and a 3–credit elective chosen in consultation with your SED advisor

Language/Communication:

- ENGL 115 – English Composition I Credits: 3
- ENGL 215 – English Composition II Credits: 3
- COMM 450 – Communication in the Classroom Credits: 3

Foreign Language (BA only)

- Intermediate Language (4)

History:

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

Choose one course from:

- ARTH 220 – Language of Art Credits: 3
- PHTO 210 – History of Photography Credits: 3
- Studio Art (3)
- ENGL 255 – Studies in Literature Credits: 3
- PHIL 224 – Introduction to Philosophy Credits: 3
- MUHL 214 – Enjoyment of Music Credits: 3
- Ensemble Music (3)

Life/Physical Sciences:

- see cognate requirements for major

Mathematics:

- see cognate requirements for major

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3

Service:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4

Social Sciences:

- GDPC 302 – Educational Psychology Credits: 3
- EDTE 228 – Strategies for Educating Exceptional and Diverse Learners Credits: 3

Fitness Education:

- HLED 120 – Fit for Life Credits: 1
- plus two Fitness Education courses

Non-degree Majors

Physics Studies Major

Major Requirements: – 30

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1
- PHYS 277 – Physics Colloquium Credits: 0 *
- PHYS 377 – Advanced Physics Laboratory I Credits: 1
- PHYS 411 – Theoretical Mechanics I Credits: 2.5 (or ENGR 285 and PHYS 412),
- PHYS 430 – Thermodynamics and Statistical Mechanics Credits: 2.5
- PHYS 431 – Electricity and Magnetism I Credits: 3 (or ENGR 435)
- PHYS 481 – Quantum Mechanics I Credits: 3
- PHYS 495 – Physics Research Credits: 0–3 (a minimum of 1 credit)
- plus an additional 3.5–6 credits numbered 300 and above in consultation with advisor.

Note:

*PHYS 277 is required every semester. MATH 389 may substitute for PHYS 277.

Cognate Courses:

- MATH 191 – Calculus I Credits: 4 or
- MATH 195 – Calculus I for Biology Credits: 4
- MATH 192 – Calculus II Credits: 4
- MATH 240 – Calculus III Credits: 4
- MATH 286 – Differential Equations Credits: 3

Note:

This major is available only as a second major. It is designed to complement engineering, computer science, chemistry and mathematics degrees, but may be added to a major in any field.

Undergraduate Minors

Physics Minor

Minor Requirements: – 20

- PHYS 241 – Physics for Scientists and Engineers I Credits: 4
- PHYS 242 – Physics for Scientists and Engineers II Credits: 4
- PHYS 271 – Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 – Physics for Scientists and Engineers Laboratory II Credits: 1
- PHYS 277 – Physics Colloquium Credits: 0 *
- PHYS 411 – Theoretical Mechanics I Credits: 2.5
- and electives chosen in consultation with the department chair.

Note:

*PHYS 277 is required every semester. MATH 389 may substitute for PHYS 277.

Secondary-teaching Certification:

Students in a teacher certification program are required to take PHYS 430, PHYS 377 and PHYS 495 (1) Research. They are also required to take MATH 191, CHEM 131, and BIOL 165 as cognates. Program is certified by the State of Michigan Department of Education. Accreditation by the National Science Teachers Association is pending.

For more information regarding Secondary Certification with a minor see the department of Teaching, Learning & Curriculum

Physics

PHYS 110 – Astronomy

Credits: 4

Exploring the cosmic environment— the solar system, stars and their development, star clusters, the interstellar medium, galaxies, and large-scale features of the Universe. Includes a distance laboratory component and meets the Andrews General Education Physical Science requirement. Does not apply to a major or minor. Weekly: 3 lectures, 1 recitation and a 2-hour lab \$ – Course or lab fee

Delivery: Interactive online course **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE P2 or MATH145 or 166 or STAT285. **Offering:** Fall, Spring **College Code:** CAS

PHYS 110 – Astronomy

Credits: 4

Exploring the cosmic environment— the solar system, stars and their development, star clusters, the interstellar medium, galaxies, and large-scale features of the Universe. Includes a distance laboratory component and meets the Andrews General Education Physical Science requirement. Does not apply to a major or minor. The distance equivalent of 3 lectures, 1 recitation, and a 2-hour lab per week. \$ – Course or lab fee **Delivery:** Interactive online course **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE P2 or MATH145 or 166 or STAT285 or equivalent. **Offering:** Fall, Spring, Summer **College Code:** CAS

PHYS 115 – Mythbusting

Credits: 4

Examining what is commonly believed about the physical world and how to realign it with measureable reality. A conceptual and relevant understanding of physics— forces, matter and energy with 21st century applications. Meets the General Education Physical Science requirement. Does not apply to a major or minor. Weekly: 3 lectures, 1 recitation and a 2-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE P2 or any GE-level math course. **College Code:** CAS

PHYS 117 – Observational Astronomy Laboratory

Credits: 1

Practical experience and background in observational astronomy with modern optical instruments in laboratory, field or remote facilities. As weather permits, will include sessions at the University observatory with departmental or personal telescopes. A standalone laboratory course suitable for students in any major and for the general public. General Education Physical Science credit is limited to transfer students who are articulating a lecture course in astronomy or a Physical Science with 3 or more credits. Does not apply to a major or minor. Weekly: one 3-hour activity \$ – Course or lab fee **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **College Code:** CAS

PHYS 141 – General Physics I

Credits: 4

Algebra based introduction to mechanics, wave motion, sound and thermodynamics. Weekly: 3 lectures, 1 recitation, 1-hour of small-group learning and one 2.5-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE P4 or MATH 167 or MATH 168 **College Code:** CAS

PHYS 142 – General Physics II

Credits: 4

Algebra based introduction to electricity, magnetism, physical and geometric optics, relativity, and modern physics Weekly: 3 lectures, 1 recitation, 1-hour of small-group learning and one 2.5-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 141 **College Code:** CAS

PHYS 225 – Sound and Waves

Credits: 4

The production, transmission, synthesis, and perception of sound as understood through the physical principles, properties, and nature of waves. Includes a survey of applications—music, speech, locomotion, and imaging—and comparisons with light and other kinds of waves. Meets the General Education Physical Science requirement. Does not apply to a major or minor. Weekly: 3 lectures and a 2-hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MPE P2 or MATH 145 or MATH 165 or STAT 285. **College Code:** CAS

PHYS 235 – MATLAB

Credits: 2–3

An introduction to MATLAB programming with a focus on its application to physics problems. The capabilities of MATLAB are explored in the areas of graphing, data analysis, numerical methods, Fourier analysis, and signal processing. Weekly: 1 lecture and 4 hours of lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

PHYS 241 – Physics for Scientists and Engineers I

Credits: 4

A calculus–based introduction to mechanics, wave motion and thermodynamics emphasizing the mathematical formulation and the physical significance of fundamental principles. Weekly: 4 lectures and 1 recitation **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PHYS 271 **Prerequisite(s):** MATH 192 **College Code:** CAS

PHYS 242 – Physics for Scientists and Engineers II

Credits: 4

A calculus–based introduction to electricity, magnetism, geometric and physical optics, relativity, and modern physics emphasizing the mathematical formulation and the physical significance of fundamental principles. Weekly: 4 lectures and 1 recitation **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PHYS 272 **Prerequisite(s):** MATH 192 and PHYS 241 **College Code:** CAS

PHYS 271 – Physics for Scientists and Engineers Laboratory I

Credits: 1

Laboratory experiments in mechanics, wave motion and thermodynamics, associated with the PHYS241 course. Weekly: one 3–hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PHYS 241 **College Code:** CAS

PHYS 272 – Physics for Scientists and Engineers Laboratory II

Credits: 1

Laboratory experiments in electricity, magnetism, geometric and physical optics, and modern physics associated with the PHYS242 course. Weekly: one 3–hour lab \$ – Course or lab fee **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** PHYS 242 **College Code:** CAS

PHYS 277 – Physics Colloquium

Credits: 0

Current topics and issues of interest to the physics community. Required each semester of all students with a physics major or minor. Interchangeable with MATH 389. Weekly: 1 lecture or activity \$ – Course or lab fee **Grade Mode:** Satisfactory (S,U,I,W) **Repeatable:** Repeatable **College Code:** CAS

PHYS 280 – Topics in_____

Credits: 0.5–3

Introductory–level topics in astrophysics, other current physics area or associated scientific programming. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** Approval of the instructor. **Repeatable:** Repeatable up to 4 credits. Minimum of 4 hours per week is required for each credit earned. **College Code:** CAS

PHYS 295 – Independent Study/Research

Credits: 1–2

Individually directed reading and lab projects in physics (e.g., holography and astrophotography). A minimum of 4 hours per week is required for each credit earned. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Approval of the instructor. **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

PHYS 350 – Optics

Credits: 2.5

Geometric and physical optics; interference and diffraction, polarization, Fourier optics, lasers, and holography. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 242 (recommended) or PHYS 142; MATH 192. **Offering:** Alternate years **College Code:** CAS

PHYS 377 – Advanced Physics Laboratory I

Credits: 1

Development of advanced lab skills in the study of basic physical phenomena. Emphasis includes scientific instrumentation, scientific computing, lab procedure, data reduction, interpretation, and technical communication. A public presentation is required. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 2 credits **Offering:** Spring **College Code:** CAS

PHYS 400 – Demonstrations in Physics

Credits: 1–2

Identifying topics suitable for demonstration, surveying the literature, preparing demonstrations, finding suppliers of materials and equipment. Critically evaluating demonstrations—their design, preparation, and execution. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** Approval of the department chair. **College Code:** CAS

PHYS 411 – Theoretical Mechanics I

Credits: 2.5

Statics, kinematics, and dynamics for single particles, including Lagrangian and Hamiltonian formalisms. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** PHYS 242 (recommended) or PHYS 142; MATH 192. **Offering:** Fall **College Code:** CAS

PHYS 412 – Theoretical Mechanics II

Credits: 2.5

Statics, kinematics, and dynamics of multi–particle systems, including Lagrangian and Hamiltonian formalisms. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 411 (recommended) or ENGR 285; MATH 192. **Offering:** Fall, odd years **College Code:** CAS

PHYS 416 – Biophysics

Credits: 2.5

Modeling and describing physical phenomena of living systems, including transport and diffusion across membranes and electrical processes in muscle and nerve tissue. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 142 or PHYS 242; MATH 192. **Offering:** Spring, odd years **College Code:** CAS

PHYS 420 – Advanced Topics in_____

Credits: 2–3

Astrophysics, atomic physics, nuclear physics, relativity or other current physics area. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** PHYS 242 or PHYS 411. **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

PHYS 430 – Thermodynamics and Statistical Mechanics

Credits: 2.5

Systematic introduction to thermodynamics, kinetic theory, and statistical mechanics (classical and quantum). Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 142 or PHYS 242; MATH 192. **Offering:** Spring, odd years **College Code:** CAS

PHYS 431 – Electricity and Magnetism I

Credits: 3

A treatment of electromagnetic phenomena in terms of potentials and vector fields. Develops Maxwell's equations with descriptions of electrostatics and magnetostatics as solutions to Laplace's and Poisson's equations. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite/Corequisite:** PHYS 411. **Offering:** Fall, even years **College Code:** CAS

PHYS 432 – Electricity and Magnetism II

Credits: 3

A treatment of electromagnetic phenomena in terms of potentials and vector fields. Addresses electromagnetic radiation in media, reflection and refraction, and the fields of waveguides and antennae. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** PHYS 431 **Offering:** Spring, odd years **College Code:** CAS

PHYS 445 – Particle Physics

Credits: 2.5

A study of particle properties, forces, structure, decay and reaction mechanism in the context of the Standard Model. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 481. **Offering:** Spring, even years **College Code:** CAS

PHYS 460 – Solid State Physics

Credits: 2.5

A study of crystallography, x-ray diffraction, properties of crystalline and amorphous solids, band theory of solids, and lattice dynamics. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 411. **Offering:** Alternate years **College Code:** CAS

PHYS 475 – Physics Review

Credits: 2.5

A review and synthesis of physics concepts and analytical and experimental techniques in preparation for entry into a graduate program. Topics include classical, statistical and quantum mechanics, waves and classical fields. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 411. **Offering:** Fall **College Code:** CAS

PHYS 477 – Advanced Physics Laboratory II

Credits: 1

Development of advanced lab skills in the study of basic physical phenomena. Emphasis includes scientific instrumentation, scientific computing, lab procedure, data reduction, interpretation, and technical communication. A public presentation is required. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 2 credits **Offering:** Spring **College Code:** CAS

PHYS 478 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Noncredit (NC,W) **College Code:** CAS

PHYS 481 – Quantum Mechanics I

Credits: 3

The mechanics of physical phenomena at small scales in formalisms developed by Schrodinger, Heisenberg, and Dirac. Treatments of infinite and square well, barrier, step, and harmonic oscillator potentials; uncertainty relations and angular momenta. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** PHYS 411. **Offering:** Fall, odd years **College Code:** CAS

PHYS 482 – Quantum Mechanics II

Credits: 3

Matrix mechanics and spin, quantum mechanics applied to the hydrogen atom, many-electron atoms and solid state physics. Also an introduction to time-independent and time-dependent perturbation theory. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PHYS 481. **Offering:** Spring, even years **College Code:** CAS

PHYS 490 – Independent Study in Physics

Credits: 1–3

Individually directed study or problem-solving in selected fields of physics. A minimum of 4 hours work per week is required for each credit earned and a written paper is required. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **Special Approval:** Instructor permission required. **College Code:** CAS

PHYS 495 – Physics Research

Credits: 0–3

An independent research project in physics supervised by a faculty member. A minimum of 4 hours work per week is required for each credit earned and a written paper is required. Students should register for credit, or for the zero credit option, for each semester during which research is being done. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 6 credits **Special Approval:** Instructor permission required. **College Code:** CAS

PHYS 530 – Topics in Teaching Physics

Credits: 1–3

Discussions on 1) the principles of physics and effective approaches for teaching them, or 2) the physics lab, its purposes, administrative and safety procedures, essential equipment, seminal experiments, data analysis, lab journal, and reports. \$ – Course or lab fee **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable up to 9 credits **College Code:** CAS

PHYS 540 – Topics in Physics

Credits: 2–3

Study in one of the traditional areas of graduate physics such as electromagnetic theory, analytical or quantum mechanics, solid state, atomic, nuclear or high energy physics, astrophysics, relativity, or mathematical physics. Students complete readings and problems. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 9 credits **College Code:** CAS

PHYS 577 – Physics Colloquium

Credits: 0, 0.5, 1

Current topics and issues of interest in the physics community. For non-zero credit options, includes specialized study and the preparation and delivery of a public presentation. Weekly: 1 lecture or activity \$ – Course or lab fee **Grade Mode:** Satisfactory (S,U,I,W) **Repeatable:** Repeatable up to 1 credit **College Code:** CAS

PHYS 648 – Workshop

Credits: 1–3

An intensive program for middle school and secondary teachers and teachers-in-training who seek certification or endorsement in physics and who wish to update and expand their skills in the physics laboratory. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

PHYS 690 – Independent Study/Research

Credits: 1–3

Individually directed study, problem-solving, or research in selected fields of physics. Open to qualified students who show ability and initiative. A minimum of 4 hours work per week expected for each credit earned. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Consent of department chair. **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

Religion & Biblical Languages

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Lael O. Caesar

Emeriti

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Woodrow Whidden

Mission

The Department of Religion & Biblical Languages seeks to engage majors and general education students through a biblically grounded, theologically astute and relevant process of spiritual formation; equipping and inspiring them to passionately serve the Seventh–day Adventist Church and the wider world beyond as dedicated laypersons and committed denominational employees in the expectation of the soon coming of Jesus Christ.

Students who are religion and theology majors must be in good and regular standing in terms of student life citizenship. As future ministers of the church, they are expected to live in harmony with Seventh–day Adventist beliefs and practices. Failure in any of these areas may lead to a student being placed on probation or being dismissed from the program. Academic requirements and other program standards are stated in detail in the departmental handbook.

Associates

Personal Ministries, Distance Education, AA

This degree prepares students for personal outreach ministries, including Bible instruction, offers an opportunity to study a broad spectrum of courses covering both Old and New Testament. The courses listed below are required for distance education students only.

Requirements – 32

- RELB 210V – Jesus in His Time and Ours Credits: 3
- RELB 304V – Studies in Daniel Credits: 3
- RELB 305V – Studies in Revelation Credits: 3
- RELB 335V – Acts and Epistles I Credits: 3
- RELP 290V – Introduction to Pastoral Counseling Credits: 3
- RELP 320V – Personal Evangelism Credits: 3
- RELT 225V – Doctrines of the Adventist Faith Credits: 3
- RELT 308V – Gift of Prophecy Credits: 3
- RELT 340V – Religion and Ethics in Modern Society Credits: 3
- HIST 404V – Adventist Heritage Credits: 3

Choose one of the following:

- RELB 374V – Old Testament Prophets, Early Credits: 3
- RELB 375V – Old Testament Prophets, Later Credits: 3

Bachelors

Religion, Distance Education, BA

Major Requirements – 32

- RELB 111V – Introduction to the Old Testament Credits: 3
- RELB 112V – Introduction to the New Testament Credits: 3
- RELB 245V – Hermeneutics Credits: 3
- RELB 304V – Studies in Daniel Credits: 3 OR RELB 305V – Studies in Revelation Credits: 3
- RELT 225V – Doctrines of the Adventist Faith Credits: 3
- RELT 308V – Gift of Prophecy Credits: 3
- RELT 425V – Seminar in Contemporary Theology Credits: 3

Choose two courses from the following:

- RELB 216V – Law and Writings of the Old Testament Credits: 3
- RELB 335V – Acts and Epistles I Credits: 3
- RELB 374V – Old Testament Prophets, Early Credits: 3 OR RELB 375V – Old Testament Prophets, Later Credits: 3

Choose six credits from the following:

- RELP 290V – Introduction to Pastoral Counseling Credits: 3
- RELP 320V – Personal Evangelism Credits: 3
- RELP 330V – Homiletics—Introduction to Preaching Credits: 2
- RELP 335V – Foundations of Youth Ministry Credits: 3
- RELP 441V – Introduction to Pastoral Ministry Credits: 3
- RELG 225V – Introduction to Missions Credits: 3

Required General Education Courses:

- RELB 210V – Jesus in His Time and Ours Credits: 3
- RELT 100V – God and Human Life Credits: 3
- RELT 250V – Personal Spirituality and Faith Credits: 3
- RELT 340V – Religion and Ethics in Modern Society Credits: 3
- The General Education foreign language requirement for the BA: Religion is to be fulfilled by either Greek or Hebrew or any modern language at the intermediate level.

Note:

Students planning to enter the Seventh–day Adventist Theological Seminary should select a major in theology. A religion major may be selected but must be supplemented with Seminary prerequisite courses. For entrance requirements, see the Theological Seminary section of this bulletin.

Religion, Religion for Secondary Education BA

Major Requirements – 32–33

- RELB 111 – Introduction to the Old Testament Credits: 3
- RELB 112 – Introduction to the New Testament Credits: 3
- RELB 245 – Hermeneutics Credits: 3
- RELB 406 – Studies in Daniel and Revelation Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4 Take for 3 credits
- RELT 325 – Theology I Credits: 3
- RELT 326 – Theology II Credits: 3
- RELP 200 – Religion Forum Credits: 0 (each semester registered)

Choose two from the following:

- RELB 216 – Law and Writings of the Old Testament Credits: 3
- RELB 335 – Acts and Epistles Credits: 3
- RELB 274 – Prophetic Writings of the Old Testament Credits: 3

Choose five to six credits from the following:

- RELP 240 – Personal Witnessing Credits: 2
- RELP 330 – Homiletics—Introduction to Preaching Credits: 2
- RELP 335 – Foundations of Youth Ministry Credits: 3
- RELP 485 – Pastoral Ministry Credits: 3
- RELG 225 – Introduction to Missions Credits: 3

Required General Education Courses:

- RELB 210 – Jesus in His Time and Ours Credits: 3

- RELT 100 – God and Human Life Credits: 3
- RELT 250 – Personal Spirituality and Faith Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3
- The General Education foreign language requirement for the BA: Religion is to be fulfilled by either Greek or Hebrew or any modern language at the intermediate level.

Graduation Requirement:

(a) A minimum grade of "C–" for all major classes and cognates; (b) a minimum overall 2.25 GPA; (c) major GPA of 2.50; (d) practical service in accordance with the requirements of the department.

Note:

Students planning to enter the Seventh-day Adventist Theological Seminary should select a major in theology. A religion major must be supplemented with Seminary prerequisite courses. For entrance requirements, see the Theological Seminary section of this bulletin.

Religion for Secondary Education Emphasis – 33–35

- RELB 111 – Introduction to the Old Testament Credits: 3
- RELB 112 – Introduction to the New Testament Credits: 3
- RELB 245 – Hermeneutics Credits: 3
- RELB 210 – Jesus in His Time and Ours Credits: 3
- RELB 406 – Studies in Daniel and Revelation Credits: 3
- RELT 100 – God and Human Life Credits: 3
- RELT 326 – Theology II Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- Take for 3 credits.

Choose one course from the following:

- RELB 216 – Law and Writings of the Old Testament Credits: 3
- RELB 335 – Acts and Epistles Credits: 3
- RELB 274 – Prophetic Writings of the Old Testament Credits: 3

Choose two from the following:

- RELT 250 – Personal Spirituality and Faith Credits: 3
- RELT 340 – Religion and Ethics in Modern Society Credits: 3
- RELP 335 – Foundations of Youth Ministry Credits: 3

Denominational certification requirements:

Religion for Secondary Education includes all requirements in Religion for SDA church certification and designated for those seeking to teach religion on the secondary level. In order to meet Michigan State Teacher Certification requirements an additional major and minor must be earned. Students must obtain a second advisor in the School of Education and consult regularly with that advisor as well as their Religion advisor.

Graduation Requirement:

(a) A minimum grade of "C–" for all major classes; (b) a minimum overall 2.5 GPA; (c) major GPA of 2.50; (d) practical service in accordance with the requirements of the department.

Theology BA

Theology majors must, within their first semester on campus, prove proficiency in Theology and Bible through a test, including a written paper and an interview, administered by the department. If they fail to meet these requirements, RELT 100 is required.

Major Requirements – 57

- RELB 111 – Introduction to the Old Testament Credits: 3
- RELB 112 – Introduction to the New Testament Credits: 3
- RELB 210 – Jesus in His Time and Ours Credits: 3
- RELB 245 – Hermeneutics Credits: 3
- RELB 335 – Acts and Epistles Credits: 3
- RELB 406 – Studies in Daniel and Revelation Credits: 3
- RELP 105 – Introduction to Pastoral Service Credits: 1

- RELP 200 – Religion Forum Credits: 0 (each semester registered)
- RELP 240 – Personal Witnessing Credits: 2
- RELP 330 – Homiletics—Introduction to Preaching Credits: 2
- RELP 350 – Evangelism Credits: 3
- RELP 485 – Pastoral Ministry Credits: 3
- RELH 400 – SDA History and Prophetic Heritage Credits: 3–4
- Take for 4 credits.
- RELT 325 – Theology I Credits: 3
- RELT 326 – Theology II Credits: 3

Choose one class from each of the following sets: (One or both classes must be 400 level.)

- RELB 216 – Law and Writings of the Old Testament Credits: 3 OR RELB 416 – Advanced Study in Law and Writings Credits: 3
- RELB 274 – Prophetic Writings of the Old Testament Credits: 3 OR RELB 474 – Advanced Study in Old Testament Prophets Credits: 3

Choose one of the following:

- RELG 225 – Introduction to Missions Credits: 3
- RELP 335 – Foundations of Youth Ministry Credits: 3

Choose one course from each of the following three categories: (must take 3 credits in each category)

Christian Spirituality: (3 credits)

- RELT 250 – Personal Spirituality and Faith Credits: 3
- RELB 230 – Biblical Prayers Credits: 3

Religion, Culture, and Society: (3 credits)

- RELT 340 – Religion and Ethics in Modern Society Credits: 3
- RELT 348 – Christians and the Environment Credits: 3
- RELT 385 – Bioethics and Christian Faith Credits: 3
- RELT 390 – Christian Business Ethics Credits: 3
- RELT 445 – Modern Trends in Religion & Society Credits: 1–3
- RELG 350 – World Religions Credits: 3

Issues in Theology: (3 credits)

- RELT 415 – Topics in Theology Credits: 1–3
- RELT 420 – Formative Thinkers in Religion Credits: 1–3

Required Cognates (22):

- BIBL 211 – Greek I Credits: 3
- BIBL 212 – Greek II Credits: 3
- BIBL 313 – Greek III Credits: 3
- BIBL 341 – Hebrew I Credits: 3
- BIBL 342 – Hebrew II Credits: 3
- RELH 316 – History of the Christian Church I Credits: 3
- RELH 317 – History of the Christian Church II Credits: 3
- RELT 295 – Introduction to Theological Research Credits: 1

Required General Education courses:

- PHIL 224 – Introduction to Philosophy Credits: 3
- FMST 115 – Introduction to Family Studies Credits: 3

Graduation Requirement:

(a) A minimum grade of "C–" for all major classes and cognates; (b) a minimum overall of 2.25 GPA; (c) major GPA of 2.50; (d) a practical ministry portfolio in accordance with the requirements of the department.

Undergraduate Minors

Biblical Languages Minor

Minor Requirements – 20

- BIBL 211 – Greek I Credits: 3
- BIBL 212 – Greek II Credits: 3

- BIBL 313 – Greek III Credits: 3
- BIBL 341 – Hebrew I Credits: 3
- BIBL 342 – Hebrew II Credits: 3
- BIBL 495 – Independent Study Credits: 1–3
- A total of 5 credits of BIBL 495 must be taken.

Missions Minor

Minor Requirements – 20

- ANTH 200 – Cultural Anthropology Credits: 3
- RELG 350 – World Religions Credits: 3
- RELP 240 – Personal Witnessing Credits: 2
- RELP 235 – Christianity in a World Context Credits: 2
- RELP 325 – Preparation for Mission Service Credits: 2
- RELP 340 – Strategies for Service Credits: 2
- FDNT 469 – International Nutrition Credits: 2–3

Choose one or two courses from the following:

- EDTE 165 – Philosophical and Social Foundations of Education Credits: 4
- BSAD 365 – International Environment of Business Credits: 3
- BSAD 450 – Multicultural Business Relations Credits: 3
- ENGL 465 – TESOL Methods Credits: 2

Choose one course from the following:

- GEOG 260 – Cultural Geography Credits: 3
- COMM 436 – Intercultural Communication Credits: 3
- FMST 350 – Family Cultural Perspectives Credits: 3

Religion Minor

Minor Requirements – 20

6 upper-division credits, 15 credits from RELB, RELT and RELG. The remaining 5 credits may be taken from any Department of Religion & Biblical Languages offerings subject to consultation with the department.

Biblical Languages

BIBL 204V – Elementary Greek I

Credits: 4

Elements of grammar of the koine Greek of the New Testament, including vocabulary, translation, and reading. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

BIBL 205V – Elementary Greek II

Credits: 4

Instruction in intermediate grammar and reading of selected portions of the New Testament. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** BIBL 204V or equivalent. **College Code:** CAS

BIBL 211 – Greek I

Credits: 3

Elements of grammar of the koine Greek of the New Testament, including vocabulary, translation, and reading. Weekly lab required **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

BIBL 212 – Greek II

Credits: 3

Instruction in intermediate grammar and reading of selected portions of the New Testament. Weekly lab required **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIBL 211 **Offering:** Spring **College Code:** CAS

BIBL 221 – Elementary Latin

Credits: 2

Introduction to Latin grammar and syntax. Emphasis on biblical and ecclesiological vocabulary and reading and translation of simple texts from Vulgate and church history. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

BIBL 222 – Intermediate Latin

Credits: 2

Instruction in intermediate Latin grammar and syntax and reading and translation of selected texts from Vulgate and church history. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIBL 221 **Offering:** Spring **College Code:** CAS

BIBL 304V – Intermediate Greek I

Credits: 3

Intermediate course in Greek to provide a fair working knowledge of the New Testament in the original language. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** BIBL 205V or equivalent. **College Code:** CAS

BIBL 305V – Intermediate Greek II

Credits: 3

Continues to refine the student's working knowledge of the New Testament in the original language. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **Prerequisite(s):** BIBL 304V or equivalent. **College Code:** CAS

BIBL 313 – Greek III

Credits: 3

Advanced Koine Reading. New Testament portions from Luke, Paul, the book of Hebrews, and James should be analyzed on the bases of Greek syntax and author specific vocabulary. Selections from the Septuagint and the early church fathers will be considered to illustrate the development of thought within Christianity. Furthermore, introducing students to selections from Philo and Josephus. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIBL 211 and BIBL 212 **Offering:** Summer or Fall **College Code:** CAS

BIBL 341 – Hebrew I

Credits: 3

Fundamentals of Biblical Hebrew including a practical vocabulary, an understanding of the grammatical structure of the language, and practice in translation. Weekly lab required **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

BIBL 342 – Hebrew II

Credits: 3

Development of reading ability in different portions of the Hebrew Bible on intermediate level. Application of the principles of Hebrew lexicography, grammar, syntax and style to the exegesis of selected passages of the Hebrew Old Testament. Emphasis placed upon practical and scholarly application of the text in an exegesis paper. Weekly lab required **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIBL 341 **Offering:** Spring **College Code:** CAS

BIBL 495 – Independent Study

Credits: 1–3

Provides opportunity for further and independent investigation of the history, development, and exegesis of the biblical text. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **Offering:** Fall, Spring, Summer **College Code:** CAS

Religion–Biblical Studies

RELB 111 – Introduction to the Old Testament

Credits: 3

An introduction to the writings and theology of the Old Testament within their near eastern cultural, geographical, and historical backgrounds. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

RELB 111V – Introduction to the Old Testament

Credits: 3

An introduction to the writings and theology of the Old Testament within their near eastern cultural, geographical, and historical backgrounds. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELB 112 – Introduction to the New Testament

Credits: 3

An introduction to the writings and theology of the New Testament within their Jewish and Greco–Roman cultural, geographical, and historical backgrounds. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

RELB 112V – Introduction to the New Testament

Credits: 3

An introduction to the writings and theology of the New Testament within their Jewish and Greco-Roman cultural, geographical, and historical backgrounds.

Delivery: Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELB 210 – Jesus in His Time and Ours

Credits: 3

Details the mission, the message and the meaning of Jesus Christ for His day and for ours. What is it about the Christian story that captured the attention of so much of world history? Also examines the connection between Christ's first Advent and His second. May be taught with specific emphasis on one of the four gospels.

Delivery: Interactive online option available **Grade Mode:** Normal (A–F,I,W)

Offering: Fall, Spring, Summer **College Code:** CAS

RELB 210V – Jesus in His Time and Ours

Credits: 3

Details the mission, the message and the meaning of Jesus Christ for His day and for ours. What is it about the Christian story that captured the attention of so much of world history? Also examines the connection between Christ's first Advent and His second. May be taught with specific emphasis on one of the four gospels.

Delivery: Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELB 216 – Law and Writings of the Old Testament

Credits: 3

An introduction to the Pentateuch and the “Writings” (historical books, Psalms, and Wisdom literature). May be taught with specific emphasis on a particular book or theme. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall or Spring **College Code:** CAS

RELB 216V – Law and Writings of the Old Testament

Credits: 3

An introduction to the Pentateuch and the “Writings” (historical books, Psalms, and Wisdom literature). May be taught with specific emphasis on a particular book or theme. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELB 230 – Biblical Prayers

Credits: 3

Readings of biblical prayers as part of divine–human dialogue, assessing their significance for theology as well as for personal spiritual life. A study of the way prayers help to characterize both God and human beings in various types of biblical literature, and reflections of the role of prayer in the life of believers today. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

RELB 235 – Apocalyptic and Biblical Prophecy

Credits: 3

A study of the meaning for the 21st century of biblical apocalyptic prophecy, describing the principles of reading and applying biblical prophecy in a modern world, comparing it with other modes of prophecy and prediction in the present culture, and assessing its relevance in view of modern global challenges. Does not count toward a Religion and Theology major. **Grade Mode:** Normal (A–F,I,W)

College Code: CAS

RELB 245 – Hermeneutics

Credits: 3

An introduction to the presuppositions beneath various interpretive approaches to the biblical text and application of the principles of interpretation to texts representing the various genres of the Old and New Testaments. **Grade Mode:** Normal (A–F,I,W) **Recommended:** Fall **Offering:** Fall **College Code:** CAS

RELB 245V – Hermeneutics

Credits: 3

An introduction to the presuppositions beneath various interpretive approaches to the biblical text and application of the principles of interpretation to texts representing the various genres of the Old and New Testaments. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELB 274 – Prophetic Writings of the Old Testament

Credits: 3

An introduction to the prophets of the Old Testament and their writings. May be taught with specific emphasis on a particular book or theme. **Delivery:** Interactive online option available **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall or Spring **College Code:** CAS

RELB 304V – Studies in Daniel

Credits: 3

Study of the background, content, and construction of these biblical books with emphasis upon the interpretation of prophecy, apocalyptic imagery and symbols.

Delivery: Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELB 305V – Studies in Revelation

Credits: 3

Study of the background, content, and construction of these biblical books with emphasis upon the interpretation of prophecy, apocalyptic imagery and symbols.

Delivery: Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELB 335 – Acts and Epistles

Credits: 3

Brief introduction to principles of New Testament interpretation; a study of Acts, the Pauline Epistles, Hebrews, and the General Epistles. Research paper may be required. May be taught with specific emphasis on a particular book or theme.

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable with different topics

Offering: Fall or Spring **College Code:** CAS

RELB 335V – Acts and Epistles I

Credits: 3

Brief introduction to principles of New Testament interpretation; a study of Acts, the Pauline Epistles, Hebrews, and the General Epistles. Research paper may be required. May be taught with specific emphasis on a particular book or theme.

Delivery: Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELB 374V – Old Testament Prophets, Early

Credits: 3

Includes the history of prophecy, the pre-writing prophetic figures, and the books of the writing prophets of the 8th and early 7th century B.C. Research paper may be required. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELB 375V – Old Testament Prophets, Later

Credits: 3

Includes the books of the writing prophets of the 7th century B.C. to the end of the prophetic canon. Research paper may be required. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELB 406 – Studies in Daniel and Revelation

Credits: 3

Study of the background, content, and construction of these biblical books with emphasis upon the interpretation of prophecy, apocalyptic imagery and symbols.

Grade Mode: Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

RELB 416 – Advanced Study in Law and Writings

Credits: 3

Focused on a particular book or on themes in the law and writings of the Old Testament. Includes exegesis. Research paper required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIBL 341 and BIBL 342 **Offering:** Fall or Spring **College Code:** CAS

RELB 474 – Advanced Study in Old Testament Prophets

Credits: 3

Focused on a particular book or on themes in the prophetic writings of the Old Testament. Includes exegesis. Research paper required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** BIBL 341 and BIBL 342 **Offering:** Fall or Spring **College Code:** CAS

Religion—General

RELG 160 – Topics in Religion

Credits: 1–3

Designed to add flexibility to the department offerings and to meet diverse student needs. Consult the class schedule for the current topic. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **Offering:** Fall, Spring, Summer **College Code:** CAS

RELG 225 – Introduction to Missions

Credits: 3

An undergraduate religion course which explores the theology and practice of missions. The objective of the course is to understand God's mission in our world and to experience personal involvement in that mission. A long-term goal of the course is to create an experience through which God can inspire students to a lifetime of service and missions. The class experience includes intensive short-term missions exposure by means of a class tour. Note: Student missionaries are required to take a different missions course: RELP 325 – Preparation for Mission Service. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

RELG 225V – Introduction to Missions

Credits: 3

An undergraduate religion course which explores the theology and practice of missions. The objective of the course is to understand God's mission in our world and to experience personal involvement in that mission. A long-term goal of the course is to create an experience through which God can inspire students to a lifetime of service and missions. The class experience includes intensive short-term missions exposure by means of a class tour. Note: Student missionaries are required to take a different missions course: RELP 325 – Preparation for Mission Service. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELG 248 – Workshop

Credits: 1–3

Provides flexibility for the occasional workshop where it is appropriate to offer religion credit. Workshop requirements must be approved by the department. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **Offering:** Fall, Spring **College Code:** CAS

RELG 350 – World Religions

Credits: 3

Explores major world views and religious traditions and their fundamental teachings, beliefs, and practices. Considers each major religion's analysis of basic human problems and the proposed solutions. Students learn to respect and understand diverse beliefs and practices. Taught from a Christian perspective, the course seeks to explore common ground and challenges between Christianity and the major world religions. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

RELG 350V – World Religions

Credits: 3

Explores major world views and religious traditions and their fundamental teachings, beliefs, and practices. Considers each major religion's analysis of basic human problems and the proposed solutions. Students learn to respect and understand diverse beliefs and practices. Taught from a Christian perspective, the course seeks to explore common ground and challenges between Christianity and the major world religions. **Delivery:** Self-paced online course **College Code:** CAS

RELG 360 – Topics in Religion

Credits: 1–3

Designed to add flexibility to the department offerings and to meet diverse student needs. Consult the class schedule for the current topic. This course qualifies for a deferred grade when it requires research. **Course Attribute:** Service course **Delivery:** Interactive online option available; self-paced online option available **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **Offering:** Fall, Spring, Summer **College Code:** CAS

RELG 378 – Study Tour:

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. Religion and theology majors may apply up to 6 elective study tour credits toward their major if preapproved by department. \$ – Course or lab fee **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Repeatable:** Repeatable up to 6 credits **College Code:** CAS

RELG 380H – Honors in Religion (topic specified)

Credits: 1–3

Readings and seminar observations on various topics. Area of study announced in advance. **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **Offering:** Fall, Spring **College Code:** CAS

RELG 496 – Special Projects in Religion

Credits: 1–3

By special permission of the Department of Religion & Biblical Languages. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **Offering:** Fall, Spring, Summer **College Code:** CAS

Religion—History

RELH 316 – History of the Christian Church I

Credits: 3

Surveys the internal and external developments and conflicts which Christianity has experienced in time and space from the time of Christ up to the Reformation. Special attention given to those developments that relate to Seventh-day Adventist theological heritage. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** HIST 117 or permission of instructor. Not applicable to the General Education requirements in religion nor a major in religion. **Offering:** Fall **College Code:** CAS

RELH 316V – History of the Christian Church I

Credits: 3

Surveys the internal and external developments and conflicts which Christianity has experienced in time and space from the time of Christ up to the Reformation. Special attention given to those developments that relate to Seventh-day Adventist theological heritage. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELH 317 – History of the Christian Church II

Credits: 3

Surveys the history of the church from the Protestant Reformation to current time. Special attention is given to the Protestant Reformation, the Catholic counter-reformation, Puritanism, Rationalism, Evangel-icalism, the rise of modern denominations, the world-wide mission expansion, and ecumenism. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** HIST 118 or permission of instructor. Not applicable to the GE requirements in religion. **Offering:** Spring **College Code:** CAS

RELH 317V – History of the Christian Church II

Credits: 3

Surveys the history of the church from the Protestant Reformation to current time. Special attention is given to the Protestant Reformation, the Catholic counter-reformation, Puritanism, Rationalism, Evangel-icalism, the rise of modern denominations, the world-wide mission expansion, and ecumenism. **Delivery:** Self-paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELH 400 – SDA History and Prophetic Heritage

Credits: 3–4

An investigation of the background, rise, and development of the Seventh-day Adventist church in America and the world from its beginning until the present with special attention given to the historical role, ministry and writings of Ellen White. Theology majors take the class for 4 credits, Religion majors for 3 credits. **Delivery:** Interactive online option available **Grade Mode:** Normal (A–F,I,W) **Offering:** Summer, Fall **College Code:** CAS

RELH 400V – SDA History and Prophetic Heritage

Credits: 3–4

An investigation of the background, rise, and development of the Seventh-day Adventist church in America and the world from its beginning until the present with special attention given to the historical role, ministry and writings of Ellen White. Theology majors take the class for 4 credits, Religion majors for 3 credits. **Delivery:** Self-paced online course **College Code:** CAS

Religion—Professional & Applied Studies

REL P 105 – Introduction to Pastoral Service

Credits: 1

An introduction for ministerial students to the various components of the pastoral calling and practicum. Open only to Theology majors. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

REL P 200 – Religion Forum

Credits: 0

A weekly seminar giving instruction in the many aspects of ministering in churches. Required of all theology/religion majors. Students must register for this class each semester in residence. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Repeatable:** Repeatable **Offering:** Fall, Spring **College Code:** CAS

REL P 235 – Christianity in a World Context

Credits: 2

An introduction to the status and role of Christianity and mission worldwide. Includes a brief history of Christian mission, current facts about mission needs, Christian and mission relationships to world religions, political ideologies, national development, and non–Western cultures. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

REL P 240 – Personal Witnessing

Credits: 2

Acquaintance with the dynamics of Christian witnessing in the neighborhood, at work, and in the friend–to–friend approach of personal Bible study. Christ's example of witnessing is highlighted. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Offering:** Fall **College Code:** CAS

REL P 290V – Introduction to Pastoral Counseling

Credits: 3

Understanding that pastoring includes counseling, this course introduces both the actual skill of counseling and the acquisition of knowledge and insights based on reading and experience. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

REL P 320V – Personal Evangelism

Credits: 3

The dynamics of personal evangelism with primary emphasis on instruction rather than exhortation. A clear biblical perspective on the priesthood of all believers; practical counseling for leading someone to Christ; a strategy for visitation; a Bible study methodology; and techniques in getting decisions. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

REL P 325 – Preparation for Mission Service

Credits: 2

An orientation to the knowledge, skills and attitudes necessary for successful mission service. This class is the required preparation for student missionaries and fulfills 2 credits of the General Education religion requirement. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring **College Code:** CAS

REL P 330 – Homiletics—Introduction to Preaching

Credits: 2

Lays the foundation for biblical sermon construction and delivery. This class is the prerequisite for all other homiletics courses and is a requirement for all religion/theology majors. Weekly lab required **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

REL P 330V – Homiletics—Introduction to Preaching

Credits: 2

Lays the foundation for biblical sermon construction and delivery. This class is the prerequisite for all other homiletics courses and is a requirement for all religion/theology majors. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

REL P 335 – Foundations of Youth Ministry

Credits: 3

Designed for the youth specialist who wishes to work as a youth pastor, youth director, academy Bible teacher, or in any other youth–training capacity. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

REL P 335V – Foundations of Youth Ministry

Credits: 3

Designed for the youth specialist who wishes to work as a youth pastor, youth director, academy Bible teacher, or in any other youth–training capacity. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

REL P 336 – Homiletics—Expository Preaching

Credits: 1

Addresses the crucial nature of expository preaching, stressing proper principles of interpreting and applying the text to practical life. Weekly lab required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** REL P 330. **Offering:** Fall or Spring. **College Code:** CAS

REL P 337 – Homiletics—Contextualized Preaching

Credits: 1

Explores the dynamics of effective preaching to a particular cultural group with an emphasis on the distinctive homiletical, rhetorical and cultural qualities required for the effective proclamation of the Gospel to each group. Weekly lab required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** REL P 330. **Offering:** Fall. **College Code:** CAS

REL P 338 – Homiletics—Evangelistic and Special Events Preaching

Credits: 1

Addresses the needs of special preaching events such as evangelistic crusades, weddings, funerals, and dedications. Weekly lab required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** REL P 330. **Offering:** Spring. **College Code:** CAS

REL P 340 – Strategies for Service

Credits: 2

Creates the vision that all Christians can serve in mission. Shows how to witness in cross–cultural situations and introduces students to ways they can do mission in any occupation. Alternate forms of mission like tent–maker ministries, nonresident missionaries, urban ministry, and work with refugees and foreign students are addressed. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

REL P 350 – Evangelism

Credits: 3

Students will prepare and conduct public evangelistic meetings. Different contexts will be chosen in different years. Students will study and reflect on the role of public evangelism in the mission of the church in various cultural settings. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** REL P 330 **College Code:** CAS

REL P 400 – Senior Seminar: Health Professions

Credits: 3

A capstone seminar for health profession majors which addresses theoretical and practical spiritual issues pertaining to those working in the health professions. **Course Attribute:** Service course **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

REL P 441 – Introduction to Pastoral Ministry

Credits: 2–3

A study of the principles of leadership as applied to pastoral ministry, in particular with regard to the minister as leader of worship, as nurturing pastor, as administrator of the church and as evangelist. Theology majors enroll for 3 credits and Religion majors for 2 credits. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall. **College Code:** CAS

REL P 441V – Introduction to Pastoral Ministry

Credits: 3

A study of good church administration, combining pastoral leadership with church management. Addresses the four–dimensional role of the pastor—person, administrator, church leader and priest. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

REL P 482 – Ministerial Candidacy Seminar

Credits: 1

Intended to help ministerial students explore practical issues in connection with their call to pastoral ministry. It also aids in the preparation of the ministerial candidacy portfolio required of the students taking this class. Open only to Theology majors during their senior year. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall. **College Code:** CAS

RELP 485 – Pastoral Ministry

Credits: 3

A study of the principles of leadership as applied to pastoral ministry, in particular with regard to the minister as leader of worship, as nurturing pastor, as administrator of the church and as evangelist. This class summarizes and assesses the practical ministry portfolio developed by the student during the course of study. **Course Attribute:** Service course **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** RELP 240, RELP 330, RELP 350 **Offering:** Fall **College Code:** CAS

Religion–Theology

RELT 100 – God and Human Life

Credits: 3

How God confronts human beings—includes the process of revelation, principles of interpreting Scripture and similarly inspired material, the nature of God and His expectations for humans, and the evaluation of these concepts as presented in Scripture and the classic literature of various religions. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring, Summer **College Code:** CAS

RELT 100V – God and Human Life

Credits: 3

How God confronts human beings—includes the process of revelation, principles of interpreting Scripture and similarly inspired material, the nature of God and His expectations for humans, and the evaluation of these concepts as presented in Scripture and the classic literature of various religions. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELT 207 – Issues in the Great Controversy

Credits: 3

Study of the controversy between Christ and Satan with particular emphasis on their characters and kingdoms, the attack against law, the implications of the sacrifice of Christ, the relationship of these issues to human lives today, and the completion of God’s mission for sinners. Credit not applicable toward the theology concentration. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

RELT 216 – Workshop in Prayer

Credits: 2

Study of faith, private prayer, family worship, conducting prayer groups, public prayer, and prayer as a ministry. Not applicable toward the theology concentration or major in religion. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring **College Code:** CAS

RELT 225 – Doctrines of the Adventist Faith

Credits: 3

Defines and clarifies the Biblical doctrines of the Seventh–day Adventist faith, distinguishing them within the background of the Judeo–Christian tradition.

Delivery: Interactive online option available **Grade Mode:** Normal (A–F,I,W)

Offering: Fall, Spring, Summer **College Code:** CAS

RELT 225V – Doctrines of the Adventist Faith

Credits: 3

Defines and clarifies the Biblical doctrines of the Seventh–day Adventist faith, distinguishing them within the background of the Judeo–Christian tradition.

Delivery: Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELT 250 – Personal Spirituality and Faith

Credits: 3

A study of the Biblical perspective on the act of faith and the life of faith. How does a person begin and nurture one's own personal spiritual and devotional life? Also studies the meaning of spiritual nurture in various lifestyle and work settings.

Personal spiritual growth is fostered through involvement in organized church activities and/or witnessing outreach. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring **College Code:** CAS

RELT 250V – Personal Spirituality and Faith

Credits: 3

A study of the Biblical perspective on the act of faith and the life of faith. How does a person begin and nurture one's own personal spiritual and devotional life? Also studies the meaning of spiritual nurture in various lifestyle and work settings.

Personal spiritual growth is fostered through involvement in organized church activities and/or witnessing outreach. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELT 295 – Introduction to Theological Research

Credits: 1

Introduces students to basic research concepts, tools, and methodology in the discipline. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

RELT 308V – Gift of Prophecy

Credits: 3

Study of the prophetic manifestation in Bible and church to include the ministry and writings of Ellen G. White. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELT 325 – Theology I

Credits: 3

A continuation of RELT 100. Study of nature, sources, and methods of theology; the doctrines of God and his works (the Trinity, creation, providence, law, and Sabbath), Christ, the Holy Spirit, and human beings. Research paper may be required. Student can earn general education credit in either RELT 225 or RELT 325, but not in both. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** RELH 400 **Offering:** Fall **College Code:** CAS

RELT 326 – Theology II

Credits: 3

Study of the doctrines of Christ and salvation (nature and works of atonement), the church (characteristics, ministry, and mission), sanctuary and Christ's heavenly ministry, and eschatology from a distinct Seventh–day Adventist perspective. Research paper may be required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** RELT 325 **Offering:** Spring **College Code:** CAS

RELT 340 – Religion and Ethics in Modern Society

Credits: 3

Considers how the Judeo–Christian tradition confronts the moral complexities of a highly technical society. Are there universal absolutes that cross all cultural boundaries, or are all values relative? Designed to help students articulate what molded their value system and what should help to shape it. Students are expected to participate in some organized church/civic/social service activities. Student can earn general education credit in either RELT340 or RELT 390, but not in both. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall, Spring **College Code:** CAS

RELT 340V – Religion and Ethics in Modern Society

Credits: 3

Considers how the Judeo–Christian tradition confronts the moral complexities of a highly technical society. Are there universal absolutes that cross all cultural boundaries, or are all values relative? Designed to help students articulate what molded their value system and what should help to shape it. Students are expected to participate in some organized church/civic/social service activities. Student can earn general education credit in either RELT340 or RELT 390, but not in both.

Delivery: Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN)

College Code: CAS

RELT 348 – Christians and the Environment

Credits: 3

A religious, philosophical, and activist approach to environmental issues, analyzing ideological causes of environmental degradation, and offering philosophical and theological perspectives which inform and sensitize the student to the Christian's environmental responsibility. Qualifies as an “S” course for General Education Service Learning. Contains a service component. **Course Attribute:** Service course **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

RELT 385 – Bioethics and Christian Faith

Credits: 3

A capstone seminar for biology and related majors that engages the interface of biology and ethics from a biblical and Seventh–day Adventist perspective. Focused attention on select bioethical issues and their relationship to Scripture and Christian practice, including but not limited to: biblical and environmental stewardship, the molecular revolution, genomics and genetic manipulation, human nature, communication in science, and dilemmas in the health professions. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BIOL 166, COMM 104 or higher, ENGL 215 **College Code:** CAS

RELT 390 – Christian Business Ethics

Credits: 3

Designed for the student to examine differing ethical models and to develop a personal model that will serve as the basis on which a Seventh-day Adventist Christian will make personal value decisions. The developed model is used in examining actual ethical issues which confront people in daily affairs of business life. Student can earn general education credit in either RELT 340 or 390, but not in both. (Open only to upper division BBA students). **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

RELT 415 – Topics in Theology

Credits: 1–3

Focused attention on select theological issues and their relationship to Christian practice. The selection of topics varies with any given course offering and might include some of the following: Trinity, theodicy, sanctuary, apocalypticism, justification by faith, revelation and inspiration, and doctrine of creation. Research paper required. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** RELT 325, RELT 326 **Repeatable:** Repeatable with different topics **College Code:** CAS

RELT 420 – Formative Thinkers in Religion

Credits: 1–3

An in–depth, seminar–style exploration of selected thinkers who have significantly

Social Work

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Mission

The Andrews University Department of Social Work, through excellence in teaching, research, and service, prepares students to be effective, knowledgeable, and qualified for practice in the twenty–first century. Using a person and environment perspective, graduates will enhance individual, family, group, organizational, and community well–being, celebrate difference, and promote social and economic justice for vulnerable populations. As a Seventh–day Adventist Christian institution, we build and disseminate knowledge, values, and skills that positively impact local, national, and international communities; affirm faith by integrating Christian compassion in action within generalist and advanced generalist social work practice; and change the world by enhancing the quality of life for all people by upholding the traditions, values, and ethics of the social work profession.

Bachelors

Social Work BSW

The Bachelor of Social Work (BSW) is a professional degree which prepares graduates for generalist professional practice and/or the opportunity to be admitted to a Master of Social Work (MSW) program with advanced standing within appropriate advanced standing GPA guidelines. In addition to the on–campus BSW program, the BSW program is offered as an off–campus program at Washington Adventist University, Takoma Park, Md. The off–campus BSW program is administered and delivered by the AU Department of Social Work and upon completion the BSW is conferred by Andrews University. The AU baccalaureate program is accredited by the Council on Social Work Education through the year 2019.

The foundation curriculum consists of 10 core competencies that are required in every BSW program: (1) Professionalism, (2) Values and Ethics, (3) Critical Thinking, (4) Diversity and Differences, (5) Human Rights and Social Economic Justice, (6) Research, (7) Human Behavior and the Social Environment, (8) Social Welfare Policy and Services, (9) Contextualization, (10) Social Work Practice, plus two (2)

impacted both Christian thought and the culture at large. Through a sustained attention of mostly primary texts, student explore the rich intersection of theology, philosophy, spirituality and ethics with the aim of probing the richness and complexity of human existence in relationship to God. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

RELT 425V – Seminar in Contemporary Theology

Credits: 3

A study of ideas of major theologians in modern times. Underlying philosophical presuppositions are analyzed. The relationship between theology and secularism is studied. The course critically examines some primary texts and evaluates their contribution and significance. **Delivery:** Self–paced online course **Grade Mode:** Griggs corresp (A–F,I,W,DG,DN) **College Code:** CAS

RELT 445 – Modern Trends in Religion & Society

Credits: 1–3

Examines a wide range of issues arising from the postmodern cultural context and their impact on Christian self–understanding, missions, and ministry in general. Special attention given to the rise of secularism, pluralism and “new atheism” and the challenges such trends present for Christian apologetics. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

additional departmental competencies: (11) Global Worldview and (12) Christian perspective.

Throughout the curriculum, the program integrates concepts of professional ethics and values, critical thinking, and sensitivity to diversity, oppression, social and economic justice, and populations–at–risk. Field education is an integral component of the program.

Although students may declare themselves as social work majors in their freshman or sophomore year, they must apply for acceptance into the social work program. Application is made in January of the sophomore year for formal acceptance into the program by the end of March. Applications are available from social work academic advisors of both the on–campus and off–campus sites.

BSW Student Handbook

The BSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the BSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Education

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Admission Criteria

Students qualify for entry into the BSW program when they:

- Earn a minimum GPA of 2.5 overall.
- Receive grades of C– or better in all required program prerequisite and cognate courses.
- Complete SOWK 100, SOWK 101, SOWK 315, SOWK 320, SOWK 325. Maintain a GPA of at least 2.50 in these courses.
- Complete and submit BSW Program Application Packet.
- Receive an acceptance letter from the Undergraduate Program Director.

English Language Requirement

For those applicants whose native language is not English, the following is required:

- MELAB—score of 80 (must achieve passing score on each section) or
- TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
- Nelson Denny—score of 13 and
- Personal interview with BSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Continued Enrollment and Professional Expectations

Continued enrollment is conditional upon the following:

- Acceptable academic performance
- Ethical conduct in compliance with the National Association of Social Workers (NASW) Code of Ethics
- Adequate knowledge and practice performance in the practicum setting.
- Appropriate demonstration of Professional Expectations.

Students in the BSW and MSW Social Work programs are expected to read, know, and integrate the professional expectations listed in the *Andrews University Department of Social Work Handbook*. Consequences for violations of these expectations could include but are not limited to verbal or written warnings, denial of admission, suspension, dismissal, or expulsion from a course or the program. Student Handbook can be obtained on the departmental website at www.andrews.edu/socialwork/.

General Education Requirements

See professional program requirements, see here, and note the following specific requirements:

Religion:

professional degree requirements

Language/Communication:

professional degree requirements

History:

- HIST 117 – Civilizations and Ideas I Credits: 3
- HIST 118 – Civilizations and Ideas II Credits: 3

Fine Arts/Humanities:

professional degree requirements

Life/Physical Sciences:

- BIOL 100 – Human Biology Credits: 4 required

plus a second science course:

- BIOL208 **or**
- FDNT 230 – Nutrition Credits: 3 and
- FDNT 240 – Nutrition Laboratory Credits: 1 recommended

Mathematics:

- STAT 285 – Elementary Statistics Credits: 3

Computer Literacy:

- INFS 120 – Foundations of Information Technology Credits: 3 or pass competency exam

Service:

- SOWK 101 – Orientation to Human Services Credits: 2

Social Sciences:

- fulfilled by Department of Social Work cognates

Fitness Education:

professional degree requirements

Major Requirements

- SOWK 100 – Introduction to Social Work Credits: 3
- SOWK 101 – Orientation to Human Services Credits: 2

- SOWK 220 – Critical Thinking Credits: 2
- SOWK 315 – Values, Ethics and Diversity Credits: 2
- SOWK 320 – Introduction to Counseling Skills Credits: 3
- SOWK 325 – Social Welfare Institutions and Services Credits: 3
- SOWK 331 – Human Behavior and the Social Environment I Credits: 2
- SOWK 332 – Human Behavior and the Social Environment II Credits: 2
- SOWK 350 – Social Policy Credits: 3
- SOWK 401 – Foundations of Practice I Credits: 4
- SOWK 402 – Foundations of Practice I, II Credits: 4
- SOWK 420 – Social Work Methods Seminar Credits: .5, .5
- SOWK 435 – Field Instruction Credits: 1–4
- SOWK 461 – Social Work Research I Credits: 2
- SOWK 462 – Social Work Research II Credits: 2
- SOWK 489 – BSW Professional Seminar Credits: .5, .5

Cognate Courses

- PSYC 101 – Introduction to Psychology Credits: 3
- SOCI 119 – Principles of Sociology Credits: 3
- BIOL 100 – Human Biology Credits: 4
- PLSC 104 – American Government Credits: 3
- PLSC 237 – The Individual, State, and Marketplace Credits: 3 **or**
- ECON 225 – Principles of Macroeconomics Credits: 3
- STAT 285 – Elementary Statistics Credits: 3
- PSYC 180 – Dealing with Your Mind Credits: 3
- SPAN 171 – Elementary Spanish I Credits: 3

Note:

Students are also required to choose 4 credits of social work electives, in consultation with the student's advisor.

Field Practicum

Students are required to complete a 400-hour field placement in a local human-service agency. Students are not eligible to take SOWK 401 or SOWK 402 or SOWK 435 before being admitted into the BSW program. The practicum is normally completed during the student's senior year. Prerequisites include the following courses (which must be completed with a grade of C– or above): SOWK 331, SOWK 332, SOWK 350 and SOWK 402, and a human biology course. Students may be dropped from the program or be required to complete additional practicum hours for the following reasons:

- Inability to demonstrate the skills, knowledge, and professional responsibilities required of a baccalaureate-level social work intern
- Clear violation of the NASW Code of Ethics

Past experience strengthens all BSW student applications. However, following Council on Social Work Education requirements, no social work course credit can be given for life experience or previous work experience.

Total Credits: 63

Masters

Social Work, Advanced Standing Plus—Two-Year Program MSW

MSW (Master of Social Work)

The Master of Social Work (MSW) degree is a professional degree enabling the graduate to enter practice as an advanced-level practitioner. Graduates are prepared to work in a variety of interpersonal clinical or administration and development practice emphases. The foundation curriculum for the MSW consists of 12 core competencies: (1) Professionalism, (2) Values and Ethics, (3) Critical Thinking, (4) Diversity and Differences, (5) Human Rights and Social Economic

Justice, (6) Research, (7) Human Behavior and the Social Environment, (8) Social Welfare Policy and Services, (9) Contextualization, (10) Social Work Practice, (11) Global Worldview, and (12) Christian Perspective. Accreditation for the MSW degree has been granted through the Council on Social Work Education through 2019.

Assistantships

Students have the opportunity to apply for graduate assistantships—teaching or research. These assistantships give students the opportunity to develop their expertise. Students interested in becoming social-work educators—especially those with years of clinical experience—may teach undergraduate courses. Research assistantships offer experiences in community consulting, grant writing, and/or conducting research.

MSW Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information. You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University. You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Admissions Criteria

- Applicants to the MSW program must meet the requirements in the Graduate Admission section of this bulletin. They must also meet the requirements outlined below.
- An overall minimum undergraduate GPA of 2.75
 - All junior and senior level core Social Work courses must have a grade of B– or above or they must be repeated at the MSW level (and the grade received must be B– or above).
- * Admissions criteria may be refined and changed as necessary to improve the process and address accreditation issues.

English Language Requirement

- For those applicants whose native language is not English, the following is required:
- MELAB—score of 80 (must achieve passing score on each section) or
 - TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
 - Nelson Denny—score of 13 and
 - Personal interview with MSW program director or designee
- Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required. A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Advanced Standing Plus—Two-year Program

Students who have done generally very well in their BSW program, but do not meet the 3.0 GPA admission requirement for the one-year advanced standing program, may be eligible for the two-year advanced standing program designed to remediate any areas of academic weakness. Credit requirements are increased by

six credits in addition to the one-year advanced program requirements, designated by the advisor in consultation with the student to strengthen identified areas for growth.

MSW Degree Requirements*

- Satisfactory completion of the MSW curriculum listed by programs below:

Advanced Standing Plus—Two-year Program

Satisfactory completion of 39 credits:

Core courses:

- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience:

- SOWK 637 – Advanced Standing Field Experience Credits: 6 = 600 hours &
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Electives:

- 15 credits

MSW Areas of Emphasis

Students may choose to specialize in the following areas of emphasis: Administration & Development, Mental Health, School Social Work, Marriage & Family, Christian Ministry, International Social Work, Medical Social Work and Aging & Social Work. Please refer to the Department of Social Work website for further information: www.andrews.edu/cas/socialwork/. Students are not required to choose an emphasis area.

Assistantships

Students have the opportunity to apply for graduate assistantships—teaching or research. These assistantships give students the opportunity to develop their expertise. Students interested in becoming social-work educators—especially those with years of clinical experience—may teach undergraduate courses. Research assistantships offer experiences in community consulting, grant writing, and/or conducting research.

MSW Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information. You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

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Admissions Criteria

- Applicants to the MSW program must meet the requirements in the Graduate Admission section of this bulletin. They must also meet the requirements outlined below.
- An overall minimum undergraduate GPA of 2.75
 - All junior and senior level core Social Work courses must have a grade of B– or above or they must be repeated at the MSW level (and the grade received must be B– or above).
- * Admissions criteria may be refined and changed as necessary to improve the process and address accreditation issues.

English Language Requirement

For those applicants whose native language is not English, the following is required:

- MELAB—score of 80 (must achieve passing score on each section) or
- TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
- Nelson Denny—score of 13 and
- Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four–year English–speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Degree Requirements

- A minimum cumulative GPA of 3.00 in Social Work Program
- No grade of D or F (or U) may count toward a graduate degree.
- The maintenance at all times of professional conduct and behaviors appropriate for a social worker according to the National Association of Social Workers’ Code of Ethics.
- Defense of the professional degree portfolio. This portfolio is a demonstrative collection of professional competencies.
- Other Andrews University degree requirements as presented in the Graduate Academic Information section of this bulletin

* Subject to change as necessary to improve the process and address accreditation issues.
Past experience strengthens all MSW student applications. However, following Council on Social Work Education requirements, no social work course credit can be given for life experience or previous work experience.

Total Credits: 39

Social Work, Advanced Standing—One–Year Program MSW

MSW (Master of Social Work)

The Master of Social Work (MSW) degree is a professional degree enabling the graduate to enter practice as an advanced–level practitioner. Graduates are prepared to work in a variety of interpersonal clinical or administration and development practice emphases. The foundation curriculum for the MSW consists of 12 core competencies: (1) Professionalism, (2) Values and Ethics, (3) Critical Thinking, (4) Diversity and Differences, (5) Human Rights and Social Economic Justice, (6) Research, (7) Human Behavior and the Social Environment, (8) Social Welfare Policy and Services, (9) Contextualization, (10) Social Work Practice, (11) Global Worldview, and (12) Christian Perspective. Accreditation for the MSW degree has been granted through the Council on Social Work Education through 2019.

Assistantships

Students have the opportunity to apply for graduate assistantships—teaching or research. These assistantships give students the opportunity to develop their expertise. Students interested in becoming social–work educators—especially those with years of clinical experience—may teach undergraduate courses. Research assistantships offer experiences in community consulting, grant writing, and/or conducting research.

MSW Student Handbook

The MSW Student Handbook has been designed as the social work student’s aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Admissions Criteria

Applicants to the MSW program must meet the requirements in the Graduate Admission section of this bulletin. They must also meet the requirements outlined below.

- An overall minimum undergraduate GPA of 3.0
- * Admissions criteria may be refined and changed as necessary to improve the process and address accreditation issues.

English Language Requirement

For those applicants whose native language is not English, the following is required:

- MELAB—score of 80 (must achieve passing score on each section) or
- TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
- Nelson Denny—score of 13 and
- Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four–year English–speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

MSW Degree Requirements*

- Satisfactory completion of the MSW curriculum listed by programs below:

Advanced Standing Program

Satisfactory completion of 33 credits:

Basic courses:

- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience:

- SOWK 637 – Advanced Standing Field Experience Credits: 1–6 = 600 hours &
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Electives:

- 9 credits

Advanced Standing—One-year Program

Credit requirements are reduced by 23 based on previous BSW foundation courses taken. In addition to the requirements for the regular two-year program, the following are required for admission into the advanced one-year program.

- Bachelors degree in Social Work no more than five years old from a program accredited by the Council on Social Work Education or international equivalent approved by CSWE. If an applicant has a degree older than five years, he/she must have one year of post-bachelor's human-service work experience for every year beyond the five-year limit.
- An overall undergraduate GPA of 3.0 and on graduate credits previously earned, and 3.2 on undergraduate Social Work classes.

MSW Curriculum

Core advanced interpersonal practice courses supplemented by optional emphasis areas of focus are offered. Students wishing to enroll in core graduate social work courses must be enrolled in the MSW Program and/or have the instructor's permission. Students in the regular two-year program are required to take all foundation year courses. All students, both regular and advanced placement, must take all core advanced year courses, as well as those listed for any specific emphasis they select and elective courses to complete the total credits required. Students who are accepted into the advanced one-year program must also take SOWK 515. Students may transfer up to 20% of the credits from one degree into the MSW program. All courses are subject to change based on accreditation needs.

MSW Areas of Emphasis

Students may choose to specialize in the following areas of emphasis: Administration & Development, Mental Health, School Social Work, Marriage & Family, Christian Ministry, International Social Work, Medical Social Work, and Aging & Social Work. Please refer to the Department of Social Work website for further information: www.andrews.edu/cas/sowk/. Students are not required to choose an emphasis area.

Total Credits: 33

Social Work, Regular Standing—Two-Year Program MSW

MSW (Master of Social Work)

The Master of Social Work (MSW) degree is a professional degree enabling the graduate to enter practice as an advanced-level practitioner. Graduates are prepared to work in a variety of interpersonal clinical or administration and development practice emphases. The foundation curriculum for the MSW consists of 12 core competencies: (1) Professionalism, (2) Values and Ethics, (3) Critical Thinking, (4) Diversity and Differences, (5) Human Rights and Social Economic Justice, (6) Research, (7) Human Behavior and the Social Environment, (8) Social Welfare Policy and Services, (9) Contextualization, (10) Social Work Practice, (11) Global Worldview, and (12) Christian Perspective. Accreditation for the MSW degree has been granted through the Council on Social Work Education through 2019.

Assistantships

Students have the opportunity to apply for graduate assistantships—teaching or research. These assistantships give students the opportunity to develop their expertise. Students interested in becoming social-work educators—especially those with years of clinical experience—may teach undergraduate courses. Research assistantships offer experiences in community consulting, grant writing, and/or conducting research.

MSW Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Admissions Criteria

Applicants to the MSW program must meet the requirements in the Graduate Admission section of this bulletin. They must also meet the requirements outlined below.

- An overall minimum undergraduate GPA of 2.75

* Admissions criteria may be refined and changed as necessary to improve the process and address accreditation issues.

English Language Requirement

For those applicants whose native language is not English, the following is required:

- MELAB—score of 80 (must achieve passing score on each section) or
- TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
- Nelson Denny—score of 13 and
- Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Regular Standing—Two-year Program

- Hold a baccalaureate degree from an accredited college or university
- Provide transcripts that demonstrate course work with a strong liberal arts background.

Required Liberal Arts Background Minimum Semester Credits

- Human Biology or Anatomy and Physiology—3 (or pass challenge exam)
- Communications/Language Skills (foreign languages, speech, grammar, linguistics, written communication, media)—6
- Social and Behavioral Science (sociology, anthropology, psychology, social psychology, diversity)—8
- Humanities/History (philosophy, religion, arts, government, political science, economics, or literature)—14
- Take STAT 285—3
- Previous computer skills, either in course work (1 credit) or extensive hands-on experience evidenced by the *Computer Skills Assessment Form*.
- Satisfy one of the criteria below:
 - Have an overall GPA of at least 2.75 in undergraduate courses.
 - Have a GPA of at least 2.75 on last 50% of undergraduate courses.
 - Have a graduate GPA of at least 3.5 on 8 semester credits or more earned in courses graded A–F.
 - Hold a previous master's degree.
- A professional résumé documenting related experience
- A statement of professional interest and purpose for MSW graduate study
- Two strong professional references
- *The faculty may request a personal interview or a third reference and/or other information.*

MSW Degree Requirements*

- Satisfactory completion of the MSW curriculum listed by programs below:

Regular Standing Program

Satisfactory completion of 56 credits:

Basic courses:

- SOWK 501 – Foundations of Practice I Credits: 4
- SOWK 502 – Foundations of Practice II Credits: 4
- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 531 – Human Behavior and the Social Environment I Credits: 2
- SOWK 532 – Human Behavior and the Social Environment II Credits: 2
- SOWK 550 – Social Policy Credits: 2
- SOWK 561 – Social Work Research I Credits: 2
- SOWK 562 – Social Work Research II Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience:

- SOWK 535 – Generalist Field Experience Credits: 1–4 = 400 hours,
- SOWK 510 – Generalist Field Seminar Credits: .5, .5
- SOWK 635 – Advanced Field Experience Credits: 1–5 = 500 hours,
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Electives:

- 10 credits

Degree Requirements

- A minimum cumulative GPA of 3.00 in Social Work Program
- No grade of D or F (or U) may count toward a graduate degree.
- The maintenance at all times of professional conduct and behaviors appropriate for a social worker according to the National Association of Social Workers' Code of Ethics.
- Defense of the professional degree portfolio. This portfolio is a demonstrative collection of professional competencies.
- Other Andrews University degree requirements as presented in the Graduate Academic Information section of this bulletin.

* Subject to change as necessary to improve the process and address accreditation issues.

Past experience strengthens all MSW student applications. However, following Council on Social Work Education requirements, no social work course credit can be given for life experience or previous work experience.

MSW Curriculum

Core advanced interpersonal practice courses supplemented by optional emphasis areas of focus are offered. Students wishing to enroll in core graduate social work courses must be enrolled in the MSW Program and/or have the instructor's permission. Students in the regular two-year program are required to take all foundation year courses. All students, both regular and advanced placement, must take all core advanced year courses, as well as those listed for any specific emphasis they select and elective courses to complete the total credits required. Students who are accepted into the advanced one-year program must also take SOWK 515. Students may transfer up to 20% of the credits from one degree into the MSW program. All courses are subject to change based on accreditation needs.

MSW Areas of Emphasis

Students may choose to specialize in the following areas of emphasis: Administration & Development, Mental Health, School Social Work, Marriage & Family, Christian Ministry, International Social Work, Medical Social Work, and Aging & Social Work. Please refer to the Department of Social Work website for further information: www.andrews.edu/cas/socialwork/. Students are not required to choose an emphasis area.

Total Credits: 56

Masters Dual Degrees

Master of Social Work/Master of Arts in Youth & Young Adult Ministry, Dual Degree MSW/MAYYAM

Master of Social Work Degree Requirements

Basic Courses – 56 Credits

- SOWK 501 – Foundations of Practice I Credits: 4
- SOWK 502 – Foundations of Practice II Credits: 4
- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 531 – Human Behavior and the Social Environment I Credits: 2
- SOWK 532 – Human Behavior and the Social Environment II Credits: 2
- SOWK 550 – Social Policy Credits: 2
- SOWK 561 – Social Work Research I Credits: 2
- SOWK 562 – Social Work Research II Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience

- SOWK 535 – Generalist Field Experience Credits: 1–4 (4 credits required for this degree. (4) = 400 hours)
- SOWK 510 – Generalist Field Seminar Credits: .5, .5
- SOWK 635 – Advanced Field Experience Credits: 1–5 (5 credits required for this degree. (5) = 500 hours)
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

MA in Youth & Young Adult Ministry Requirements

General Seminary Requirements – 18 Credits

Biblical Spirituality – 2 Credits

- DSRE 541 – Foundations of Biblical Spirituality Credits: 2–3 (2 credits required)

Biblical Studies – 4 Credits

- 2–4 credits in Old Testament and/or 2–4 credits in New Testament

Theology – 4 Credits

- Two courses in Theology; one ethics course recommended

Church History – 2 Credits

- CHIS 574 – History of Seventh-day Adventist Theology Credits: 2

Christian Ministry – 4 Credits

- CHMN 523 – Worship: Word and Music Credits: 2–3 (2 credits required)

Choose one of the following

- CHMN 526 – Conflict Management in the Church Credits: 2–3
- CHMN 527 – Church Leadership and Administration Credits: 2–3
- CHMN 543 – Christian Leadership in a Changing World Credits: 3

World Mission – 2 Credits

MAYYAM Concentration Courses – 16 Credits

- CHMN 632 – Contextualized Preaching: Youth & Young Adult Credits: 2

- DSRE 656 – Counseling Youth and Young Adults Credits: 2–3 (2 credits required)
- DSRE 605 – Issues in Religious Education Credits: 2 **OR** DSRE 610 – Teaching for Discipleship Credits: 2
- DSRE 608 – Youth and Young Adults in Contemporary Culture Credits: 2
- DSRE 534 – Ministry to Youth and Young Adults Credits: 2–3 (2 credits required)
- DSRE 564 – Advanced Youth and Young Adult Ministry Leadership Credits: 2–3 (2 credits required)
- Choose one CHMN or DSRE Course (2 Credits)

BIBLE & Biblical History (if needed) – 1 Credit

- GSEM 525 – The Bible and Biblical History Credits: 1

MAYYAM Dual Degree

Andrews University has formed a collaborative between the Department of Discipleship and Religious Education in the Seminary and the Department of Social Work in the College of Arts & Sciences to prepare students for youth and young adult ministry and social work. Students choosing this program would receive both a master's in Youth and Young Adult Ministry and a master's in Social Work. The objectives of this program are to equip students for various forms of ministry in which clinical and administrative skills in social work and ministry are needed; to enable students to integrate both ministry and social work knowledge, values and skills into a multifaceted approach to Christian service, thereby enhancing their usefulness as instruments of the Holy Spirit; and to sensitize them to nontraditional ministry opportunities by exposing them to theories and practice skills related to counseling approaches, person-in-environment, social and economic justice, human rights and global perspectives from a Christian worldview. The program is designed to give students both master's degrees within three years. The details of the program are as follows:

- The dual degree will consist of 78 credits.
- The student will need to be accepted into both programs.
- There will be shared electives between the two programs:
 - Eight credits for the MA in Youth & Young Adult Ministry; and
 - Ten credits for the Master of Social Work.
- Fieldwork will also be a shared experience, being cross-listed as CHMN660 Field Practicum/SOWK535 Field Experience/ SOWK635 Advanced Field Experience. Nine credit hours will be required for a total of 900 clock hours.
- One course will be cross-listed and be taken in the Department of Social Work:
 - DSRE 503 – Marriage, Family, and Interpersonal Relationships with SOWK 501 – Foundations of Practice I
- GSEM 525 – The Bible and Biblical History will be considered a prerequisite course. If the student passes the Biblical Literacy Exam, that will satisfy the prerequisite. If the student does not pass the exam, they will need to take the one-credit GSEM 525 in addition to the 78 credits for the dual degree.

See the Seminary section of this bulletin for a complete description of this dual degree.

MSW Requirements

Student Handbook

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You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

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The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

English Language Requirement

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 80 (must achieve passing score on each section) or
3. TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
4. Nelson Denny—score of 13 and
5. Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Master of Social Work/Master of Divinity Track 1, Dual Degree MSW/MDiv

MDiv General Information

For more information regarding: Program Overview, Application, Policies and other entrance requirements see the Masters of Divinity section in the Seventh-day Adventist Seminary section.

Program Description

Andrews University has formed a collaboration between the Seventh-day Adventist Theological Seminary and the Department of Social Work in the College of Arts & Sciences to prepare students for service in occupations where social work and the pastoral mission of the church intersect. The objectives of this program are to prepare students for various forms of ministry in which clinical and administrative skills in social work and theology are needed; to enable students to integrate both theological and social work knowledge, values and skills into a multifaceted approach to Christian service, thereby enhancing their usefulness as instruments of the Holy Spirit; and to sensitize students to nontraditional ministry opportunities by exposing them to theories and practice skills related to counseling approaches, person-in-environment, social and economic justice, human rights and global perspectives from a Christian worldview. The program is designed to give students an integrated approach to both theology and social work. Students can choose either a dual degree or an emphasis in either Social Work or Christian Ministry.

Master of Social Work Degree Requirements: 46 Credits

Basic Courses

- SOWK 501 – Foundations of Practice I Credits: 4
- SOWK 502 – Foundations of Practice II Credits: 4
- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 531 – Human Behavior and the Social Environment I Credits: 2
- SOWK 532 – Human Behavior and the Social Environment II Credits: 2
- SOWK 550 – Social Policy Credits: 2
- SOWK 561 – Social Work Research I Credits: 2
- SOWK 562 – Social Work Research II Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3

- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience

- SOWK 535 – Generalist Field Experience Credits: 1–4 (4 credits required for this degree. (4) = 400 hours)
- SOWK 510 – Generalist Field Seminar Credits: .5, .5
- SOWK 635 – Advanced Field Experience Credits: 1–5 (5 credits required for this degree. (5) = 500 hours)
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Master of Divinity Track 1

MDiv/MSW Track 1 program is for students who have a Bachelors degree in Theology. Students who do not have a BA in Theology will need to complete the MDiv/MSW Track 2 program.

MDiv Prerequisites

- GSEM 525 – The Bible and Biblical History Credits: 1
OR Biblical Literacy Exam 80% – August
- CHMN 552 – Foundations of Pastoral Ministry Credits: 2
OR Church Policy Exam 80%
- NTST 551 – Beginning Greek Credits: 2
OR Beginning Greek Exam 60%
- NTST 552 – Intermediate Greek Credits: 2–3
OR Intermediate Greek Exam 70%
- OTST 551 – Biblical Hebrew I Credits: 3
OR Hebrew Examination 45% or higher
- OTST 552 – Biblical Hebrew II Credits: 2–3
OR Hebrew II Examination 65% or higher

Interdisciplinary Courses – 14

- GSEM 534 – Issues in Ellen G. White Studies Credits: 2–3 **2 credits for MDiv**
- GSEM 530 – Doctrine of the Sanctuary Credits: 2–3 **2 credits for MDiv**
- GSEM 539 – Issues in Origins Credits: 2–3 **2 credits for MDiv**
- GSEM 510 – Revelation, Inspiration and Hermeneutics Credits: 3
- GSEM 626 – Contemporary Adventist Theological Issues Credits: 2–3 **2 credits for MDiv**
- GSEM 627 – Issues in Daniel and Revelation Credits: 3

Christian Ministry – 16

- CHMN 539 – Church Growth and the Equipping Pastor Credits: 2–3
- CHMN 562 – Field Evangelism Credits: 3–6 **3 credits for MDiv**
- CHMN 631 – Field Evangelistic Preaching Credits: 3
- CHMN 543 – Christian Leadership in a Changing World Credits: 3

- CHMN 566 – Mobilizing Laity for the Ministry of Evangelism Credits: 2–3 **2 credits for MDiv OR**
- CHMN 656 – Holistic Small Groups Credits: 2–3 **2 credits for MDiv**
- CHMN 523 – Worship: Word and Music Credits: 2–3 **2 credits for MDiv OR**
- Choose one 600 Level Advanced Preaching Course Credits 2

Courses from NADEI

Of the above courses, the following are taught by NADEI (North American Division Evangelism Institute).

CHMN539 – Church Growth

CHMN562 – Field Evangelism

CHMN566 – Mobilizing Laity

CHMN656 – Holistic Small Groups

CHMN536 – Personal Evangelistic Ministry

CHMN631 – Field Evangelistic Preaching

In the semester in which students take CHMN562 – Field Evangelism, the class load is limited to 12 credits.

International (non–North American) students are exempt from CHMN562–Field Evangelism and CHMN631–Field Evangelistic Preaching, except as arranged. Other NADEI courses are required of international students unless the substitution of a course offered by the Department of World Mission is approved by the MDiv director. The 3 credits exempted from CHMN562 must be taken in either the

Christian Ministry or World Mission departments. The course CHMN631 must be replaced by CHMN621–Evangelistic Preaching or another advanced (600 Level) preaching course.

Discipleship and Religious Education – 5

- DSRE 541 – Foundations of Biblical Spirituality Credits: 2–3 **3 credits for MDiv**
- DSRE 534 – Ministry to Youth and Young Adults Credits: 2–3 **2 credits for MDiv OR**
- DSRE 610 – Teaching for Discipleship Credits: 2–3 **2 credits for MDiv**

Old Testament: 8

- Choose one ANEA Course Credits 2
- OTST 633 – Social Issues in the Old Testament (Exegesis) Credits: 2–3 **3 credits for MDiv**
- Choose one Theology Courses Credits 3

Theology: 6

- THST 540 – Doctrine of Salvation Credits: 2–3 **2 credits for MDiv**
- Choose one 600 Level Systematic Theology Course Credits 2
- Choose one 600 Level Historical Theology Course Credits 2

Church History: 6

- CHIS 674 – Development of Seventh–day Adventist Theology Credits: 3
- Choose one 600 Level Church History Course Credits 3

New Testament: 8

- NTST 633 – Social Issues in the New Testament (Exegesis) Credits: 2–3 (3 credits for MDiv)
- Choose one 600 Level New Testament Theology Course Credits 3
- Choose one 600 Level New Testament Backgrounds Course Credit 2

World Mission: 6

- MSSN 546 – Mission in Cultural and Religious Context Credits: 3
- MSSN 561 – Christian Witness and World Religions Credits: 3

Credits for Each Program

MDiv: Track 1: Graduation requirements consist of the satisfactory completion of 115 semester credits with an overall grade point average of C (2.5) or better. Sixty–nine credits are MDiv credits, 31.5 credits are social work credits, and 14.5 credits are shared between the two curricula in lieu of MDiv electives.

MSW: MDiv students are required to complete 45 core credit hours for the two–year regular MSW program. Due to the strict requirements of the Council on Social Work Education’s accrediting mandates, these core courses must all be taught or co–taught within the department by faculty holding an MSW degree. However, these courses could be co–taught with faculty from the seminary. MDiv/MSW DUAL DEGREE PROGRAM 373 Occasionally, a student who has already earned a BSW from an accredited program may apply to this program. In this case, the student would be placed in the Advanced Standing program, and take either 33 credits (Advanced Standing) or 39 credits (Advanced Standing Plus). Students with an undergraduate GPA of 3.0 or higher are eligible to complete the Advanced Standing Program while those with a lower GPA must complete the Advanced Standing Plus requirements. Since both the MDiv and MSW programs reduce total credits in order to reduce costs and achieve a more streamlined and efficient program, both degrees must be received simultaneously in order to fulfill the requirements of either degree. Although MDiv students can transfer 11 electives into the MSW program, they can only receive a tuition reduction if they are simultaneously enrolled in the MDiv Program.

Shared Social Work credits between Social Work and MDiv equal 14.5. Shared MDiv credits between MDiv and Social Work equal 11.

- SOWK501 Foundations of Practice 1 (4 credits) is shared with DSRE503 Marriage, Family & Interpersonal Relationships (3 credits)

- SOWK510/535 Generalist Field Experience/Seminar) 2.5 credits is shared with CHMN560 Theological Field Education (2 credits)
- SOWK601 Advanced Practice I (3 credits) is shared with CHMN555 Pastoral Counseling (2 credits)
- SOWK630 Policy for Social Change (3 credits) is shared with MSSN505 Christian Responses to Human Needs (2 credits) or CHMN544 The Church and Social Issues (2 credits)
- SOWK515 Christian Perspectives on Ethics (2 credits) is shared with THST643 Christian Professional Ethics (2 credits)

Admission Requirements

Applicants for the MDiv/MSW dual degree program typically will have received a bachelor's degree (BA, BS, BSW) from a four-year college or university accredited by one of the nationally recognized accrediting agencies in the United States, or hold an equivalent educational credential from another country. Application must be made separately to both the Seventh-day Adventist Theological Seminary and the Department of Social Work. Acceptance into one of the programs does not guarantee acceptance into the other. Applicants must meet the admissions requirements for each program, including all required prerequisites for each degree program.

MDiv:

Although MDiv students can transfer 11 electives into the MSW program, they can only receive a tuition reduction if they are simultaneously enrolled in the MDiv program. Students who have already completed an MDiv degree can receive the tuition reduction upon admission into the MSW program.

MSW:

1. Students must maintain a minimum cumulative GPA of 3.0 in social work program courses;
2. No grade of D or F (or U) may count toward the MSW degree.

Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

English Language Requirement MDiv

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 85 (must achieve passing score on each section) or
3. TOEFL—score of 600 (paper based) or score of 90 (computer based with a minimum of 20 on each section)
4. IELTS—score of 7

Language proficiency must be met before enrolling full-time in regular coursework.

English Language Requirement – MSW

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 80 (must achieve passing score on each section) or
3. TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
4. Nelson Denny—score of 13 and
5. Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are

seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Master of Social Work/Master of Divinity Track 2, Dual Degree MSW/MDiv

MDiv General Information

For more information regarding: Program Overview, Application, Policies and other entrance requirements see the Masters of Divinity section in the Seventh-day Adventist Seminary section.

Program Description

Andrews University has formed a collaboration between the Seventh-day Adventist Theological Seminary and the Department of Social Work in the College of Arts & Sciences to prepare students for service in occupations where social work and the pastoral mission of the church intersect. The objectives of this program are to prepare students for various forms of ministry in which clinical and administrative skills in social work and theology are needed; to enable students to integrate both theological and social work knowledge, values and skills into a multifaceted approach to Christian service, thereby enhancing their usefulness as instruments of the Holy Spirit; and to sensitize students to nontraditional ministry opportunities by exposing them to theories and practice skills related to counseling approaches, person-in-environment, social and economic justice, human rights and global perspectives from a Christian worldview. The program is designed to give students an integrated approach to both theology and social work. Students can choose either a dual degree or an emphasis in either Social Work or Christian Ministry.

Master of Social Work Degree Requirements: 46 Credits

Basic Courses

- SOWK 501 – Foundations of Practice I Credits: 4
- SOWK 502 – Foundations of Practice II Credits: 4
- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 531 – Human Behavior and the Social Environment I Credits: 2
- SOWK 532 – Human Behavior and the Social Environment II Credits: 2
- SOWK 550 – Social Policy Credits: 2
- SOWK 561 – Social Work Research I Credits: 2
- SOWK 562 – Social Work Research II Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience

- SOWK 535 – Generalist Field Experience Credits: 1–4 (4 credits required for this degree. (4) = 400 hours)
- SOWK 510 – Generalist Field Seminar Credits: .5, .5
- SOWK 635 – Advanced Field Experience Credits: 1–5 (5 credits required for this degree. (5) = 500 hours)
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Master of Divinity Track 2

Interdisciplinary Courses – 15

- GSEM 525 – The Bible and Biblical History Credits: 1
- GSEM 534 – Issues in Ellen G. White Studies Credits: 2–3
- GSEM 530 – Doctrine of the Sanctuary Credits: 2–3
- GSEM 539 – Issues in Origins Credits: 2–3
- GSEM 510 – Revelation, Inspiration and Hermeneutics Credits: 3
- GSEM 626 – Contemporary Adventist Theological Issues Credits: 2–3
- GSEM 511 – Daniel and Revelation Credits: 3

Christian Ministry – 20

- CHMN 539 – Church Growth and the Equipping Pastor Credits: 2–3
- CHMN 562 – Field Evangelism Credits: 3–6 **3 credits for MDiv**
- CHMN 631 – Field Evangelistic Preaching Credits: 3
- CHMN 543 – Christian Leadership in a Changing World Credits: 3
- CHMN 552 – Foundations of Pastoral Ministry Credits: 2
- CHMN 505 – Biblical Preaching Credits: 2–3 **2 credits for MDiv**
- CHMN 536 – Personal Evangelistic Ministry Credits: 2–3

- CHMN 523 – Worship: Word and Music Credits: 2–3 **2 credits for MDiv** **OR**
Choose one CHMN_____Advanced Preaching Elective 2 credits

Courses from NADEI

Of the above courses, the following are taught by NADEI (North American Division Evangelism Institute).

CHMN539 – Church Growth

CHMN562 – Field Evangelism

CHMN566 – Mobilizing Laity

CHMN656 – Holistic Small Groups

CHMN536 – Personal Evangelistic Ministry

CHMN631 – Field Evangelistic Preaching

In the semester in which students take CHMN562 – Field Evangelism, the class load is limited to 12 credits.

International (non–North American) students are exempt from CHMN562–Field Evangelism and CHMN631–Field Evangelistic Preaching, except as arranged. Other NADEI courses are required of international students unless the substitution of a course offered by the Department of World Mission is approved by the MDiv director. The 3 credits exempted from CHMN562 must be taken in either the Christian Ministry or World Mission departments. The course CHMN631 must be replaced by CHMN621–Evangelistic Preaching or another advanced (600 Level) preaching course.

Discipleship and Religious Education – 5

- DSRE 541 – Foundations of Biblical Spirituality Credits: 2–3 **3 credits for MDiv**
- DSRE 534 – Ministry to Youth and Young Adults Credits: 2–3 **2 credits for MDiv** **OR**
- DSRE 610 – Teaching for Discipleship Credits: 2–3 **2 credits for MDiv**

Church History: 12

- CHIS 674 – Development of Seventh–day Adventist Theology Credits: 3
- CHIS 501 – Church History I Credits: 2
- CHIS 502 – Church History II Credits: 2
- CHIS 503 – Church History III Credits: 2
- CHIS 504 – Adventist Heritage Credits: 3

Old Testament: 15

- OTST 551 – Biblical Hebrew I Credits: 3
- OTST 552 – Biblical Hebrew II Credits: 2–3 **2 credits for MDiv**
- OTST 565 – Pentateuch Credits: 3
- OTST 555 – Prophets Credits: 3
- OTST 558 – Writings Credits: 2
- ANEA 510 – Archaeology and the Bible Credits: 2–3 **2 credits for MDiv** **OR**
- ANEA 514 – Bible Lands and Their Explorations Credits: 2–3 **2 credits for MDiv** **OR**
- NTST 615 – New Testament Archaeology Credits: 2–3 **2 credits for MDiv**

New Testament: 15

- NTST 551 – Beginning Greek Credits: 2
- NTST 552 – Intermediate Greek Credits: 2–3
- NTST 515 – New Testament Backgrounds Credits: 2–3 **2 credits for MDiv**
- NTST 510 – Intro to Exegesis and Theology 1: Gospels Credits: 3
- NTST 543 – Intro to Exegesis and Theology 2: Acts and General Epistles Credits: 2
- NTST 509 – Intro to Exegesis and Theology 3: Pauline Writings Credits: 3

Theology: 8

- THST 521 – Christian Theology I Credits: 3
- THST 522 – Christian Theology II Credits: 3
- THST 510 – Understanding the Christian World Credits: 2–3 **2 credits for MDiv**

World Mission: 6

- MSSN 546 – Mission in Cultural and Religious Context Credits: 3
- MSSN 561 – Christian Witness and World Religions Credits: 3

Credits for Each Program

MDiv: Track 2: Graduation requirements consist of satisfactory completion of 142 semester hours with an overall grade point average of C (2.5) or better. Ninety–six credits are MDiv credits, 31.5 credits are Social Work credits, and 14.5 credits are shared between the two curricula.

MSW: MDiv students are required to complete 45 core credit hours for the two–year regular MSW program. Due to the strict requirements of the Council on Social Work Education’s accrediting mandates, these core courses must all be taught or co–taught within the department by faculty holding an MSW degree. However, these courses could be co–taught with faculty from the seminary. MDIV/MSW DUAL DEGREE PROGRAM 373 Occasionally, a student who has already earned a BSW from an accredited program may apply to this program. In this case, the student would be placed in the Advanced Standing program, and take either 33 credits (Advanced Standing) or 39 credits (Advanced Standing Plus). Students with an undergraduate GPA of 3.0 or higher are eligible to complete the Advanced Standing Program while those with a lower GPA must complete the Advanced Standing Plus requirements.

Since both the MDiv and MSW programs reduce total credits in order to reduce costs and achieve a more streamlined and efficient program, both degrees must be received simultaneously in order to fulfill the requirements of either degree. Although MDiv students can transfer 11 electives into the MSW program, they can only receive a tuition reduction if they are simultaneously enrolled in the MDiv Program.

Shared Social Work credits between Social Work and MDiv equal 14.5. Shared MDiv credits between MDiv and Social Work equal 11.

- SOWK501 Foundations of Practice 1 (4 credits) is shared with DSRE503 Marriage, Family & Interpersonal Relationships (3 credits)
- SOWK510/535 Generalist Field Experience/Seminar) 2.5 credits is shared with CHMN560 Theological Field Education (2 credits)
- SOWK601 Advanced Practice I (3 credits) is shared with CHMN555 Pastoral Counseling (2 credits)
- SOWK630 Policy for Social Change (3 credits) is shared with MSSN505 Christian Responses to Human Needs (2 credits) or CHMN544 The Church and Social Issues (2 credits)
- SOWK515 Christian Perspectives on Ethics (2 credits) is shared with THST643 Christian Professional Ethics (2 credits)

Admission Requirements

Applicants for the MDiv/MSW dual degree program typically will have received a bachelor’s degree (BA, BS, BSW) from a four–year college or university accredited by one of the nationally recognized accrediting agencies in the United States, or hold an equivalent educational credential from another country. Application must be made separately to both the Seventh–day Adventist Theological Seminary and the Department of Social Work. Acceptance into one of the programs does not guarantee acceptance into the other. Applicants must meet the admissions requirements for each program, including all required prerequisites for each degree program.

MDiv:

Although MDiv students can transfer 11 electives into the MSW program, they can only receive a tuition reduction if they are simultaneously enrolled in the MDiv program. Students who have already completed an MDiv degree can receive the tuition reduction upon admission into the MSW program.

MSW:

1. Students must maintain a minimum cumulative GPA of 3.0 in social work program courses;
2. No grade of D or F (or U) may count toward the MSW degree.

Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

English Language Requirement MDiv

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 85 (must achieve passing score on each section) or
3. TOEFL—score of 600 (paper based) or score of 90 (computer based with a minimum of 20 on each section)
4. IELTS—score of 7

Language proficiency must be met before enrolling full-time in regular coursework.

English Language Requirement – MSW

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 80 (must achieve passing score on each section) or
3. TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
4. Nelson Denny—score of 13 and
5. Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

MDiv Emphases Options

Students enrolled in the MDiv program may choose from a number of 12-credit emphases. More specific details may be obtained from each department regarding these areas of emphasis.

Choosing an emphasis may prolong the length of a student's program. Please consider the possibility of adding a semester to your MDiv program when attempting to complete an emphasis. Regular master's tuition is charged for courses taken after an MDiv student has completed their program coursework.

Master of Divinity Emphases

See Master of Divinity Emphases options for a detailed list of required courses.

Christian Ministry African American Ministry Chaplaincy Church Growth and Evangelism Church Leadership Pastoral Care Preaching	New Testament Exegesis and Theology Backgrounds and Languages
Church History Church History Adventist Studies Church and State Reformation	Old Testament Old Testament Archaeology & History of Antiquity Jewish Studies Biblical and Cognate (Ancient Near Eastern) Languages
Discipleship and Religious Education Discipleship and Biblical Spirituality Campus Spiritual Leadership Family Life Education Youth Ministry	Theology and Christian Philosophy Christian Ethics Historical Theology Systematic Theology
	World Missions Missions Studies

Master of Social Work/Master of Science in Community and International Development, Dual Degree MSW/MSCID

Dual Degree Program Description

Andrews University has chosen to explore a collaborative between the Community & International Development Program (CIDP) and the Department of Social Work in the College of Arts & Sciences to prepare students for service in occupations where social work and international development intersect. Social Workers, particularly those in the areas of Administration and Development and International Social Work, may have an interest in international work. In such situations, the MSCID could equip them with a complementary skill set. Likewise, development and relief workers often find themselves in situations where social work skills in counseling and therapy would be useful. In addition, the MSCID/MSW collaborative allows for a greater breadth of employment opportunities for students.

MSW Degree Requirements

Basic Courses

- SOWK 501 – Foundations of Practice I Credits: 4
- SOWK 502 – Foundations of Practice II Credits: 4
- SOWK 515 – Christian Perspectives on Professional Ethics Credits: 2
- SOWK 531 – Human Behavior and the Social Environment I Credits: 2
- SOWK 532 – Human Behavior and the Social Environment II Credits: 2
- SOWK 550 – Social Policy Credits: 2
- SOWK 561 – Social Work Research I Credits: 2
- SOWK 562 – Social Work Research II Credits: 2
- SOWK 601 – Advanced Practice I Credits: 3
- SOWK 602 – Advanced Practice II Credits: 2
- SOWK 605 – Advanced Clinical Assessment Credits: 3
- SOWK 630 – Policy for Social Change Credits: 3
- SOWK 660 – Advanced Practice Evaluation Credits: 3
- SOWK 689 – Advanced Professional Seminar Credits: .5, .5

Field Experience

- SOWK 535 – Generalist Field Experience Credits: 4 = 400 hours
- SOWK 510 – Generalist Field Seminar Credits: .5, .5
- SOWK 635 – Advanced Field Experience Credits: 5 = 500 hours
- SOWK 610 – Advanced Field Seminar Credits: .5, .5

Electives – 10 Credits

MSW Emphasis Options

Administration & Development Emphasis

- CIDS 520 – Development Theory and Practice Credits: 3

Choose one of the following courses

- CIDS 515 – Organization and Human Resources Credits: 3 **OR** BSAD 515 – Organizational Behavior & Leadership Credits: 3 **OR** BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3

International Social Work Emphasis

- CIDS 536 – Development Design & Evaluation Credits: 3 (Satisfies SOWK 675 – Topics: Grant writing Credits: 1)
- SOWK 537 – International Social Work Credits: 2

MSCID Degree Requirements – 39–40 Credits

CIDP Core Courses – 10 Credits

- CIDS 520 – Development Theory and Practice Credits: 3
- SOCI 508 – Emergency Preparedness Credits: 2
- ANTH 517 – Cultural and Developmental Anthropology Credits: 2
- Remaining 3 credit hours satisfied by SOWK 630 – Policy for Social Change

Development Management – 11 Credits

- CIDS 530 – Needs Assessment, Capacity Mapping & Program Planning Credits: 3
- CIDS 536 – Development Design & Evaluation Credits: 3
- CIDS 535 – Budgeting, Fundraising & Grantsmanship Credits: 2

Choose one of the following three courses:

- CIDS 515 – Organization and Human Resources Credits: 3
- BSAD 530 – Leadership & Management of Not-for-Profit Organizations Credits: 3
- BSAD 515 – Organizational Behavior & Leadership Credits: 3

Research Tools & Skills – 6–7 Credits

- SOCI 533 – Research Methods III: Advanced Research Design–Experimental and Survey Credits: 2
- SOCI 534 – Research Methods IV: Advanced Statistical Analysis & SPSS Credits: 2
- CIDS 670 – Comprehensive Exam Credits: 0
- CIDS 698 – Research Project Credits: 2–3 **OR** CIDS 699 – Master's Thesis Credits: 3–4

Practicum – 1 Credit

Field experience must be planned in consultation with both programs in order to satisfy all requirements.

- Satisfied by: SOWK 635 – Advanced Field Experience Credits: 1–5

Concentration Electives – 12 Credits

- SOWK 660 – Advanced Practice Evaluation
- SOWK core credits may be applied to a CIDP concentration at the discretion of the CIDP Program Director.

Collaborative Program Objectives

1. To prepare students for various forms of work in which clinical and administrative skills in development and social work are needed;
2. To enable students to integrate development and social work knowledge, values, and skills into a multifaceted approach to service, thereby enhancing their value in the world.

Distinctive Features of the Program

The program is designed to give students an integrated approach to both international development and social work. Students who take a social work emphasis in Administration and Development and International Social Work can choose a dual degree with CIDP.

Admission Requirements

Applicants to the MSCID/MSW dual degree program typically will have received a bachelor's degree (BA, BS, BSW) from an accredited four-year college or university in the U.S., or hold an equivalent educational credential from another country. Application must be made separately to both the MSDIC and MSW programs. Acceptance into one program does not guarantee acceptance into the other. Applicants must meet the admissions requirements for each program, including all required prerequisites for each degree. Students in both programs must meet the following minimum requirements:

1. Students must maintain a minimum cumulative GPA of 3.0;
2. No grade of D or F (or U) may count toward either degree.

Credits for Each Program

MSCID students are required to complete 39–40 credit hours for the two-year regular program, which includes 12 elective credits (minimum of 4 courses). Students with certain prerequisites may qualify for the 30-credit advanced standing program. The two-year regular MSW degree requires 46 core credit hours, plus 10 elective hours. Due to the strict requirements of the Council on Social Work Education's accrediting mandates, these core courses must all be taught or co-taught within the department by faculty holding an MSW degree. Occasionally, a student who has already earned a BSW from an accredited program may apply to this program. In this case, the student would be placed in the Advanced Standing program, and take either 33 credits (Advanced Standing) or 39 credits (Advanced Standing Plus). Students with an undergraduate GPA of 3.0 or higher are eligible to complete the Advanced Standing Program, while those with a lower GPA must complete the Advanced Standing Plus requirements.

These program models create a curriculum that allows for the integration of 21–24 Social Work and CIDP credits, giving students the advantage of being able to reduce their total credit load. Since both MSCID and MSW programs already share courses in order to reduce costs and achieve a more streamlined and efficient program, the course work for both degrees must be taken either simultaneously or within one academic year of completion of one of the degrees in order to fulfill the requirements of either degree.

Because of CSWE requirements, students in the MSCID/MSW SOCIAL WORK COURSES 215 dual degree program would register for social work core classes in lieu of certain CIDP courses and would take an emphasis in either Administration & Development or International Social Work. Students will take shared courses as outlined below.

MSW Requirements

Student Handbook

The MSW Student Handbook has been designed as the social work student's aid in understanding the program requirements, Social Work Department, and relevant policies of Andrews University. Inside the handbook you will find information such as expectations of students, the MSW curriculum, departmental policies, and other relevant information.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

Field Manual

The Field Manual has been designed as your aid in understanding field education requirements, your role as a student in a field agency, and relevant policies of Andrews University.

You are responsible for the information found in this handbook, so please take the time to familiarize yourself with the handbook and know where to find questions and answers if the need arises.

English Language Requirement

1. For those applicants whose native language is not English, the following is required:
2. MELAB—score of 80 (must achieve passing score on each section) or
3. TOEFL—score of 550 (paper based) or score of 80 (computer based with a minimum of 20 on each section) plus
4. Nelson Denny—score of 13 and
5. Personal interview with MSW program director or designee

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work in English may be required.

A student who graduated from a four-year English-speaking high school, college or university may be exempted from all or parts of the above requirements.

Graduate Record Examination (GRE)

Students who are applying for admission to the MSW program have two options related to the Graduate Record Examination (GRE). For those students who are seeking a graduate scholarship, the GRE must be taken. The amount of a potential scholarship is related to the score achieved on the GRE as follows:

GRE Score	Scholarship
320	50% tuition reduction
310	25% tuition reduction
300	10% tuition reduction

For students who do not seek a graduate scholarship based on the GRE score, the GRE examination is not required.

Social Work

SOWK 100 – Introduction to Social Work

Credits: 3

The professional activity of social workers in the U.S., including a brief history of the social-work profession, its knowledge, values, and skills base, and its cross-cultural aspects. Emphasis on the response of social work to varied populations and diverse cultures. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

SOWK 101 – Orientation to Human Services

Credits: 2

This course explores various personal and professional values and skills needed for working in human services. It provides a theoretical and practical knowledge base for understanding and meeting community needs. It also includes a brief orientation to the BSW program. Fifty (50) hours of documented volunteer service is required. **Course Attribute:** Service course **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **College Code:** CAS

SOWK 220 – Critical Thinking

Credits: 2

In this course, students develop the ability to think clearly and critically. Practice includes developing writing skills that enable students to clearly present claims to support their conclusions and avoid reinforcing biases. Content will challenge students to think abstractly by examining the construction of social work theory and applying theory in practice. Topics include the relationship between critical thinking and clear writing, credibility of sources, rhetorical devices, fallacies, unclear or misleading language, the characteristics of various types of arguments and critical analysis. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 315 – Values, Ethics and Diversity

Credits: 2

Special attention is given to core values and professional ethics expected of outstanding social workers. Emphasizing a Christian world view, students develop appreciation for diversity and sensitivity toward issues related to culture, race, gender, class, age, and sexual identity. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** Pre/Corequisite: SOWK 100 or permission of instructor. **Offering:** Fall **College Code:** CAS

SOWK 320 – Introduction to Counseling Skills

Credits: 3

Exposes students to basic engagement, listening, assessment, and interviewing skills. Students gain beginning skills to explore the problems of various client systems. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PSYC 101. **Offering:** Spring **College Code:** CAS

SOWK 325 – Social Welfare Institutions and Services

Credits: 3

An analysis of the factors which determine the manner in which social-welfare services are currently being delivered in the U. S. Factors include the value base, the historical development, and the organization of the social welfare system. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 100; HIST 118 or PLSC 104. **Offering:** Fall **College Code:** CAS

SOWK 331 – Human Behavior and the Social Environment I

Credits: 2

Ecological model for studying human behavior and an overview of normal individual development from conception through early childhood. Psychosocial, learning, and social-role theories constitute the theoretical basis for the course. Special attention paid to the impact of gender, health, and minority status upon human development. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 100, BIOL 100. **Offering:** Fall **College Code:** CAS

SOWK 332 – Human Behavior and the Social Environment II

Credits: 2

Ecological model for studying human behavior and an overview of normal individual development from middle childhood to late adulthood. Psychosocial, learning, and social-role theories constitute the theoretical basis for the course. Special attention paid to the impact of gender, health, and minority status upon human development. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 331. **Offering:** Spring **College Code:** CAS

SOWK 350 – Social Policy

Credits: 3

Develops basic knowledge and skills for policy analysis, formulation and critical challenge within local and international contexts. Examines the determining factors affecting public policy in the United States as compared with other systems. Provides framework for analysis of social problems and policies, as they impact development and social service practice. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** PLSC 104. **Offering:** Spring **College Code:** CAS

SOWK 378 – Study Tour

Credits: 0

Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 401 – Foundations of Practice I

Credits: 4

Designed to develop the theory, knowledge, and skills essential in generalist social work practice. Various methods are offered for developing communication, assessment, planning, intervention, termination, and evaluative skills necessary in social work practice. Focus on skills necessary for practice with individuals, families and groups in a variety of settings. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 420 **Offering:** Fall **College Code:** CAS

SOWK 402 – Foundations of Practice I, II

Credits: 4

Designed to develop the theory, knowledge, and skills essential in generalist social work practice. Various methods are offered for developing communication, assessment, planning, intervention, termination, and evaluative skills necessary in social work practice. Focus on skills necessary for practice with individuals, families and groups in a variety of settings. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** Prerequisite: SOWK 401 and Corequisites: SOWK 331, SOWK 332, SOWK 420. **Offering:** Fall, Spring **College Code:** CAS

SOWK 408 – Introduction to Emergency Preparedness

Credits: 2

Provides an introduction to basic philosophy and concepts of Emergency Preparedness as required by FEMA (Federal Emergency Management Agency) and most states which certify staff. Includes use of FEMA-provided modules in the Professional Development Series which are accepted prerequisites for advanced classroom courses. A passing grade is required on each module for a Satisfactory grade and receipt of a Professional Development Series Certificate of Completion. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 410 – Children and Families at Risk

Credits: 2

This course explores factors that put children and families at risk for various social problems in American society. Special attention is placed on institutions, services, policies, and laws that impact families, set within a historical context of child welfare laws and services. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 415 – Substance Use in American Society

Credits: 2

An overview of substance-use terminology, historical issues, definitions, epidemiology, consequences, and drugs of abuse within an American cultural and historical framework. Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

SOWK 420 – Social Work Methods Seminar

Credits: .5, .5

Provides opportunity for students to develop their basic social work skills through integrating social work knowledge and theory into field practice. Several aspects of field will be discussed. Is taken concurrently with the student's field placement.

Grade Mode: Normal with DG (A–F,I,W,DG,DN) **Corequisite(s):** SOWK 401 or SOWK 402 **Repeatable:** Repeatable up to 1 credit **Offering:** Fall, Spring **College Code:** CAS

SOWK 424 – Social Gerontology

Credits: 2

A study of aging and ageism in the United States, including demographic trends, societal attitudes, problems of the elderly, and national policies relating to senior citizens in the cultural context of American society. **Grade Mode:** Normal (A–F,I,W)

Offering: Normally offered even years **College Code:** CAS

SOWK 425 – Emergency Planning

Credits: 2

Principles of emergency planning used in any type of disaster. Includes working with volunteers, handling special events, evacuation, mass fatalities, planning for schools, and homeland security planning. Required course for Michigan Professional Emergency Management (PEM) certification. Includes satisfactory completion of FEMA–provided modules in Professional Development Series. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 408. **College Code:** CAS

SOWK 435 – Field Instruction

Credits: 1–4

A lab course to give students experience and practice in a community agency under qualified supervision. A total of 400 clock hours required. Repeatable to 4 credits. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Corequisite(s):** SOWK 401 and SOWK 420 **Prerequisite(s):** SOWK 401 and SOWK 420 **Repeatable:** Repeatable up to 4 credits **Offering:** Fall, Spring, Summer **College Code:** CAS

SOWK 437 – International Social Work

Credits: 2

This course reviews the concepts, issues and organizations related to international social work. It gives students the historical perspective of the involvement of social workers in international action including both development and human rights efforts. The course includes a discussion of international ethics, global policy and international exchange. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 438 – Workshop:_____

Credits: 1–4

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

SOWK 440 – Assessment and Treatment of Victims of Violence

Credits: 2

Examination of assessment issues, approaches, and barriers to effective treatment when working with victims of domestic violence, adult survivors of sexual abuse, victims of rape, incest survivors, and child sexual–assault victims. Interpretation of assessment findings included. Short– and long– term therapy options including specific techniques are explored. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 401 and SOWK 402 or SOWK 501 or permission of instructor. **College Code:** CAS

SOWK 444 – International Social Work Services and Programs

Credits: 2–4

Students will travel within the USA and/or abroad to develop through immersion cultural competency in the areas of research, policy and practice, and to gain practical experience from an international social work perspective. Additionally, this course will provide students with networking opportunities with various humanitarian organizations working in national and international settings. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 446 – Crisis Intervention

Credits: 2

Survey of brief treatment models. Direct application of various crisis intervention models to population in crisis. Juniors and seniors only. **Delivery:** Self–paced media course **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 449 – Disaster Response and Emergency Operations

Credits: 2

Study of the phases of disaster response and recovery with attention to local, state, and national roles and expectations. Models of emergency management operations including communication, coordination, and chief executive decision–making under conditions of disaster response will be emphasized. Attention will be given to the problems and concerns of recovery on victims and communities and the implications of disaster recovery efforts. Required course for PEM certification. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** BStudio Art courseD426/526. Evidence of satisfactory completion of PDService course. modules, IS244 Developing and Managing Volunteers, IS546/547 Continuity of Operations, and IS(7)00 National Incident Management System. **College Code:** CAS

SOWK 455 – Treatment of Substance Abuse

Credits: 2–4

An overview of treatment techniques and basic prevention strategies including specific training in assessment and therapeutic techniques, examining the relationship between etiology and treatment. Treatment evaluation discussed. At–risk, vulnerable populations receive special consideration. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 460 – Death and Grief in Contemporary Society

Credits: 2

h dying, death, and loss, as well as the experiences of guest speakers, provides topics for class discussion. The “art of condolence” is discussed for helping people deal with uncomplicated death and loss issues. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 461 – Social Work Research I

Credits: 2

Course includes research tools available to social workers to assist them with the integration of research–based evidence into their practice. Discusses an overview of the research process, theoretical review, ethics, cultural competence, hypothesis and problem formulation, instrument construction and research design. SPSS will be used by students to design a research project addressing a social problem. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** Pre/corequisite: SOWK 331. **Offering:** Fall **College Code:** CAS

SOWK 462 – Social Work Research II

Credits: 2

Course includes research tools for social workers, including: data collection methods, survey research, data analysis, qualitative research methods and writing research reports. Students will complete a research project addressing a social problem, analyze the data using SPSS, and write a research report. **Grade Mode:** Normal (A–F,I,W) **Prerequisite/Corequisite:** Pre/corequisite: SOWK 461, SOWK 332. **Offering:** Spring **College Code:** CAS

SOWK 475 – Topics in:_____

Credits: 1–4

Students are able to select offerings from various contemporary social–work topics. **Delivery:** Self–paced media course **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

SOWK 477 – Community Assessment and Capacity Mapping

Credits: 2

Introduction to various methods for assessing community needs and mapping community capacity to address those needs. Includes damage assessment for emergency situations. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 478 – Principles & Practice of Hazards Mitigation

Credits: 3

Study of preparedness as related to hazards in the local community with attention to means of mitigation as well as planning measures. Includes IS modules IS271 Anticipating Hazardous Weather & Community Risk and IS340 Hazardous Materials Prevention. Swing course—Approved 400–499 courses qualify for graduate–level credit for graduate students **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Evidence of satisfactory completion of PDService course. modules IS5 Intro to Hazardous Materials and IS55 Hazardous Materials Guide for Citizens. **College Code:** CAS

SOWK 489 – BSW Professional Seminar

Credits: .5, .5

Introduces and monitors professionalism as evidenced in student's portfolio, scholarship skills, and their ability to exhibit positive behaviors that will ensure success in social work practice. Fall portfolios presented and graded in the spring.

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable up to 1 credit **Offering:** Fall, Spring **College Code:** CAS

SOWK 495 – Independent Study/Project/Teachings

Credits: 1–4

Consent of the instructor required. Undergraduate/Graduate Swing Electives **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 501 – Foundations of Practice I

Credits: 4

Designed to develop the theory, knowledge, and skills essential in generalist social-work practice. Various methods are offered for developing communication, assessment, planning, intervention, termination and evaluative skills necessary in social work practice. Focus on skills necessary for practice with individuals, families and groups in a variety of settings. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 510 **Prerequisite(s):** SOWK 531 or SOWK 532 **Offering:** Fall **College Code:** CAS

SOWK 502 – Foundations of Practice II

Credits: 4

Designed to develop the theory, knowledge, and skills essential in generalist social-work practice. Various methods are offered for developing communication, assessment, planning, intervention, termination and evaluative skills necessary in social work practice. Focus on skills necessary for practice with individuals, families and groups in a variety of settings. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 510 **Prerequisite(s):** SOWK 501 **Offering:** Fall, Spring **College Code:** CAS

SOWK 505 – Medical Social Work

Credits: 2

Introduces and develops the skills needed for social work in health care settings: hospitals, hospices, homecare and nursing homes. Skills include case management, discharge planning, medical terminology, documentation, advocacy, understanding cultural diversity, individual and family interviewing, and understanding psychosocial issues related to each setting. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 510 – Generalist Field Seminar

Credits: .5, .5

Provides opportunity for students to develop their basic social work skills through integrating social work knowledge and theory into field practice. Several aspects of field will be discussed. Is taken concurrently with the student's field placement.

Grade Mode: Normal with DG (A–F,I,W,DG,DN) **Corequisite(s):** SOWK 501 or SOWK 502 **Repeatable:** Repeatable up to 1 credit **Offering:** Fall, Spring **College Code:** CAS

SOWK 515 – Christian Perspectives on Professional Ethics

Credits: 2

Students will examine their personal beliefs and values in relation to ethical and diversity issues. Students will also apply a professional code of ethics to practice dilemmas they may face in the fields of social work and family life using a Christian theological framework. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

SOWK 520 – Web & Media for Not-for-Profit

Credits: 2

This course emphasizes interpersonal competence, various professional standards and use of presentation and archival technologies for use in professional interviews. Electronic Portfolio, Web Development and CDROM Authoring technologies are presented. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 524 – Social Gerontology

Credits: 2

A study of aging and ageism in the United States, including demographic trends, societal attitudes, problems of the elderly, and national policies relating to senior citizens in the cultural context of American society. **Grade Mode:** Normal (A–F,I,W) **Offering:** Normally offered even years **College Code:** CAS

SOWK 531 – Human Behavior and the Social Environment I

Credits: 2

Ecological model for studying human behavior and an overview of normal individual development from conception through early childhood. Psycho-social, learning, and social-role theories constitute the theoretical basis for the course. Special attention paid to the impact of gender, health, and minority status upon human development. **Grade Mode:** Normal (A–F,I,W) **Offering:** Fall **College Code:** CAS

SOWK 532 – Human Behavior and the Social Environment II

Credits: 2

Ecological model for studying human behavior and an overview of normal individual development from middle childhood to late adulthood. Psycho-social, learning, and social-role theories constitute the theoretical basis for the course. Special attention paid to the impact of gender, health, and minority status upon human development. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

SOWK 535 – Generalist Field Experience

Credits: 1–4

In this practicum, students will apply course-based knowledge and skills by working in a social service setting. A minimum of 400 clock hours are required. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Corequisite(s):** SOWK 510 and SOWK 501 or SOWK 502 **Repeatable:** Repeatable up to 4 credits **Offering:** Fall, Spring, Summer **College Code:** CAS

SOWK 537 – International Social Work

Credits: 2

This course reviews the concepts, issues and organizations related to international social work. It gives students the historical perspective of the involvement of social workers in international action including both development and human rights efforts. The course includes a discussion of international ethics, global policy, and international exchange. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 545 – Counseling and Spirituality

Credits: 2

Working from a Christian worldview, students will integrate current therapeutic practice models with spiritual counseling principles and skills. Students will learn how to apply a variety of spiritual assessment and intervention skills across diverse settings and populations. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** MSW student or permission of instructor. **College Code:** CAS

SOWK 550 – Social Policy

Credits: 2

Develops basic knowledge and skills for policy analysis, formulation and critical challenge within local and international contexts. Examines the determining factors affecting public policy in the United States as compared with other systems. Provides framework for analysis of social problems and policies, as they impact development and social service practice. **Grade Mode:** Normal (A–F,I,W) **Offering:** Spring **College Code:** CAS

SOWK 561 – Social Work Research I

Credits: 2

Course includes research tools available to social workers to assist them with the integration of research-based evidence into their practice. Discusses an overview of the research process, theoretical review, ethics, cultural competence, hypothesis and problem formulation, instrument construction and research design. SPSS will be used by students to design a research project addressing a social problem. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 531 **Prerequisite(s):** SOWK 531 **Offering:** Fall **College Code:** CAS

SOWK 562 – Social Work Research II

Credits: 2

Course includes research tools for social workers, including: data collection methods, survey research, data analysis, qualitative research methods and writing research reports. Students will complete a research project addressing a social problem, analyze the data using SPSS, and write a research report. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 561, SOWK 532 **Prerequisite(s):** SOWK 561, SOWK 532 **Offering:** Spring **College Code:** CAS

SOWK 578 – Study Tour

Credits: 0

Travel to selected areas of social work interest combined with lectures, directed readings and assignments. The amount of credit and geographic location are designated at the time a study tour is announced. **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 601 – Advanced Practice I

Credits: 3

Develops interpersonal practice skills on an advanced level. The course gives special consideration to developing proficiency in cognitive–behavioral therapy. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 610. **Prerequisite(s):** Completion of SOWK 502 or admission to Advanced Standing. **Offering:** Fall **College Code:** CAS

SOWK 602 – Advanced Practice II

Credits: 2

Develops practice skills on an advanced level. The course gives special consideration to Social Work leadership as it relates to human and financial resource management. **Grade Mode:** Normal (A–F,I,W) **Corequisite(s):** SOWK 610. **Prerequisite(s):** Advanced–year status or permission of instructor. **Offering:** Spring **College Code:** CAS

SOWK 605 – Advanced Clinical Assessment

Credits: 3

Advanced assessment theories of and recent research into the etiology and psychopathology of social variance. Emphasis on developing differential diagnostic skills and holistic assessment from a strengths perspective. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Advanced–year status or permission of instructor. **Offering:** Fall **College Code:** CAS

SOWK 610 – Advanced Field Seminar

Credits: .5, .5

This seminar builds on the student's generalist foundational knowledge. It is designed to help the student further integrate social work knowledge and theory to field practice. Several aspects of field will be discussed. Is taken concurrently with the student's field placement. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Corequisite(s):** SOWK 601 or SOWK 602. **Repeatable:** Repeatable **Offering:** Fall, Spring **College Code:** CAS

SOWK 614 – Migrant & Refugee Issues

Credits: 2

This course will study fundamental theories and concepts regarding voluntary migration (migrant issues) and forced migration (refugee issues). It will also address the main political, social, economic and environmental push and pull factors that influence immigration and emigration within the framework of globalization. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 620 – School Social Work

Credits: 2

Required for students who wish to practice social work in a school setting. Various aspects of practice included: the students, the community, the school staff, and innovative social–work–practice techniques. **Grade Mode:** Normal (A–F,I,W) **Offering:** Alternate years **College Code:** CAS

SOWK 624 – Evidence–Based Therapies

Credits: 2

This survey course will explore evidence–based practice models that are commonly used in clinical settings. Students will have opportunities to observe and practice these models in a classroom setting in preparation for application in field settings. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 626 – Therapy with Children & Adolescents

Credits: 2

This course prepares students to work with children and adolescents. Information on therapeutic modalities and specific interventions are included. The major psychological disorders in children and adolescents are addressed, as well as special issues they may have. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Advanced–year status or permission of instructor. **College Code:** CAS

SOWK 628 – Treatment of Adult Mental Disorders

Credits: 2

Exposure to the primary clinical social goals of assessment, diagnosis, and treatment by examining the common adult mental disorders. Emphasis placed on assessment factors, including cultural, psychosocial and evaluation of symptoms. Specific treatment techniques for each diagnosis explored. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 501, SOWK 502 or advanced placement. **College Code:** CAS

SOWK 630 – Policy for Social Change

Credits: 3

Students explore theory and apply it to community organizing, coalition building, and advanced–policy analysis; assess existing policies within various systems and study the impact of these policies; and plan and implement a social–action project. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** Advanced–year placement. **College Code:** CAS

SOWK 635 – Advanced Field Experience

Credits: 1–5

In this practicum, students will apply advanced course–based knowledge and skills by working in a social service setting. A minimum of 500 clock hours is required. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Corequisite(s):** Successful completion of SOWK 535, SOWK 610, SOWK 601 or SOWK 602 **Prerequisite(s):** Successful completion of SOWK 535, SOWK 610, SOWK 601 or SOWK 602 **Repeatable:** Repeatable up to 5 credits **Offering:** Fall, Spring, Summer **College Code:** CAS

SOWK 637 – Advanced Standing Field Experience

Credits: 1–6

In this practicum, students will apply advanced course–based knowledge and skills by working in a social service setting. A minimum of 600 hours are required. **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) **Corequisite(s):** SOWK 610, SOWK 601 or SOWK 602 **Prerequisite(s):** SOWK 610, SOWK 601 or SOWK 602 **Repeatable:** Repeatable up to 6 credits **Offering:** Fall, Spring, Summer **College Code:** CAS

SOWK 638 – Leadership in Social Work

Credits: 2

Focus on leadership theories and strategies. Students develop the capacity to apply these theories and strategies adaptively in leadership situations within organizational and community context. Students explore how leadership styles, communication, planning, organizing, decision making, and marketing impact organizational and community change. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Completion of SOWK 502, admission to Advanced Standing, or permission of instructor. **College Code:** CAS

SOWK 640 – Interventions in Marital Conflict

Credits: 2

Explores models and techniques to uncover and utilize counselee's strengths to improve marital communication and satisfaction. Research–based techniques applied through role–playing and other experiential activities. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 402 or SOWK 501 or an equivalent graduate course in social–work methods or counseling. **College Code:** CAS

SOWK 646 – Trauma and Advanced Crisis Intervention

Credits: 2

This course will assist students in developing advanced skills to effectively assist populations during times of trauma and crisis. Various assessment and intervention strategies will focus on work with individuals who experience violence, death or other personal trauma as well as groups of people who experience large–scale macro–level crises such as war, terrorism and natural disasters. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** SOWK 501 **College Code:** CAS

SOWK 648 – Workshop:_____

Credits: 1–4

Grade Mode: Normal (A–F,I,W) **Repeatable:** Repeatable up to 4 credits **College Code:** CAS

SOWK 649 – Advanced Family Therapy

Credits: 2

This course prepares students to work with families. Major family therapy modalities are included, as well as an exposure to therapeutic family concerns. **Grade Mode:** Normal (A–F,I,W) **Prerequisite(s):** Advanced–year status or permission of instructor. **College Code:** CAS

SOWK 655 – Organizational/Community Assessment

Credits: 2

The basic underpinnings of organizational dynamics. Students explore the historical influences on and current challenges faced by social-work managers. The basics of management-assessment skills and human issues that impact organization explored. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** Advanced-year placement. **Offering:** Fall **College Code:** CAS

SOWK 659 – Human Sexuality

Credits: 3

An understanding of the development and main tenets of interpersonal relationships, and a study of the character and quality of human social conduct. Also examines human sexuality, and studies the physiological, psychological, emotional and social aspects of sexual development and the Christian response to this God-given gift. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 660 – Advanced Practice Evaluation

Credits: 3

Prepares students to examine their own practice's quality. Attention given to selecting appropriate measurement tools. The latest evaluation techniques are presented, offering students resources for 21st-century practice. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite/Corequisite:** Co/Prerequisites: SOWK 635 and advanced-year placement or permission of instructor. **Offering:** Spring **College Code:** CAS

SOWK 665 – Program Continuation

Credits: 0

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) classes with advisor approval only. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 667 – Interventions in Gerontology

Credits: 2

This course will utilize bio-psychosocial knowledge about older adults to assess and apply advanced interventions in a variety of practice settings. Using case examples and practice activities, evidence-based therapeutic models and interventions will be examined to address these issues. **Grade Mode:** Normal (A–F,I,W) **College Code:** CAS

SOWK 670 – Project Continuation

Credits: 0

Students may register for this title while clearing deferred grade (DG) and/or incomplete (I) classes with advisor approval only. Registration for this title indicates full-time status. \$ – Course or lab fee **Grade Mode:** Noncredit (NC,W) **Repeatable:** Repeatable **College Code:** CAS

SOWK 675 – Topics in:

Credits: 1–4

Students are able to select offerings from various contemporary social-work topics. **Delivery:** Self-paced media course **Grade Mode:** Normal (A–F,I,W) **Repeatable:** Repeatable with different topics **College Code:** CAS

SOWK 689 – Advanced Professional Seminar

Credits: .5, .5

Facilitates MSW closure prior to graduation. Students prepare and defend their portfolios. Each student reviews and documents his/ her learning and personal goal attainment. Exploration of issues related to career development and lifelong learning. **Grade Mode:** Normal with DG (A–F,I,W,DG,DN) **Prerequisite(s):** Advanced Standing or permission of instructor. **Repeatable:** Repeatable up to 1 credit **Offering:** Fall, Spring **College Code:** CAS

SOWK 690 – Independent Study/Research

Credits: 1–3

Open to qualified students who show ability and initiative. See the department policy for specific requirements. **Grade Mode:** Normal w S/DG (A–F,I,S,U,DG,W) **Prerequisite(s):** Permission of Graduate Program Director and instructor. **Repeatable:** Repeatable **College Code:** CA