

INTER-DISCIPLINARY STUDIES

Academic Programs	Credits
BS: Environmental Sciences	98
Minor in Women's Studies	30
MA: Interdisciplinary Studies: Communication	48-60
MA: Interdisciplinary Studies: Humanities	48-60
MS: Interdisciplinary Studies Mathematics and Physical Sciences	48-60

An increasing number of careers demand that students have integrated, advanced skills and expertise in more than one field of study. Careers in education, leadership, management, and religion require a holistic grasp on philosophical, ethical, and pedagogical interrelationships. The interdisciplinary programs provide a framework where faculty and students can engage in scholarly pursuits which require such interrelationships.

Undergraduate Programs

BS: Environmental Sciences—98

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Faculty

Dennis W. Woodland, Biology, *Coordinator*
A. Josef Greig, Philosophy and Religion
James L. Hayward, Biology
Gary G. Land, History
Duane C. McBride, Sociology
G. William Mutch, Chemistry
Timothy G. Standish, Biology
John F. Stout, Biology
John W. Young, Political Science
Kristopher P. Zygowiec, Geography

The discipline of environmental science deals with the relationships between humans and natural systems. This degree develops an understanding of the relationship between humans and natural systems, expertise in problem solving and communication skills, environmental management skills, testing and planning abilities, and a strong foundation for advanced study in various professional and basic research fields. It promotes "hands on" as well as basic and theoretical training.

Requirements in four areas:

Physical/Natural Sciences and Math: AGRI116; BIOL155, 156, 157, 204, 205, 348; CHEM121, 122, 123, 211, 212, 213, 341, 342; IDSC340,

406, 407, 408; MATH182
Philosophy and Ethics: RELT340, RELG360
Topics: Religion and Environment
Social Sciences: GEOG240; SOCI470; PLSC104, 304; and ECON 225 or 226.
General Education: STAT285; ANTH124; BHSC235.

An internship is required, lasting a minimum of 3 months. Students are encouraged to select other electives with the help of their adviser according to their career interests.

Minor in Women's Studies—30

Coordinators: Cheryl J. Jetter, Associate Professor of Art History; Meredith Jones Gray, Professor of English; Brian E. Strayer, Professor of History

The minor in Women's Studies is an interdisciplinary program housed in the College of Arts and Sciences. The program coordinators act as advisers for students who choose the minor. These advisers help students select classes outside the core and work with them on a final synthesis paper.

Because of its interdisciplinary nature, the Women's Studies minor complements most majors in the humanities and social sciences, as well as many in education and the natural sciences. A minor in Women's Studies can also broaden the perspective and increase the usefulness of students entering programs related to public services.

Requirements: ENGL255; GCAS240 and 495; HIST116; SOCI430; and 13 elective credits chosen from courses approved in consultation with one of the program coordinators

Graduate Programs

The College of Arts and Sciences (in cooperation with other schools) offers graduate programs leading to the Master of Arts: Interdisciplinary Studies (Communication), Master of Arts: Interdisciplinary Studies (Humanities), and Master of Science: Interdisciplinary Studies (Mathematics and Physical Sciences).

ENROLLMENT AND GRADUATION PROCEDURES FOR MASTER OF ARTS/SCIENCE IN INTERDISCIPLINARY STUDIES

Students planning to enroll in the Master of Arts or Master of Science: Interdisciplinary Studies program should note the following procedures:

1. At the time of application for admission, Master of Arts: Interdisciplinary Studies (Communication or Humanities) students must submit a statement of objectives for seeking the degree and a proposal as to how disciplines will be integrated to meet the student's goals. Master of Science (Mathematics and Physical Science) students must specify the two areas of emphasis proposed.
2. A supervising committee (chair and two graduate faculty members representing appropriate disciplines) is appointed by the area coordinator in consultation with the Graduate Program Coordinator to advise the student in developing his/her program. This committee also supervises

the student's program and guides his/her research.

3. The committee and the student develop a plan of study. Deficiencies, prerequisites, and research and/or language tools are considered as well as transfer credits, residency, comprehensives, and a culminating project. All course work and procedures are to be consistent with the student's defined and approved purpose and the general requirements for the MA or MS as defined in this bulletin.
4. The plan of study must be submitted to the Graduate Program Coordinator via the area coordinator before registration. Any changes in the plan of study must be approved by the supervising committee, the area coordinator, and the Graduate Program Coordinator.
5. A project must be submitted to a student's committee at least two months prior to graduation. The area coordinator recommends final project approval after the consent of the committee has been obtained.
6. Advancement to degree candidacy is recommended by the area coordinator by means of the usual forms and according to the requirements outlined on p. 33.
7. Graduation Procedures and Degree Conferral. See p. 19 for further details.

GENERAL ADMISSIONS REQUIREMENTS

1. Availability of faculty and facilities, as determined by Area Coordinator, for the intended program.
2. Completion of a baccalaureate degree in one of the areas selected for graduate study.

MA in Interdisciplinary Studies—Communication

Janice Y. Watson, *Area Coordinator*
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<http://www.andrews.edu/COMM/>

The Master of Arts: Interdisciplinary Studies—Communication is designed for students who wish to develop advanced-level communication skills in combination with knowledge or skills in another area or areas.

Some of the areas of study that may be combined with communication in preparation for specific careers are religion, marketing, curriculum and instruction, consumer science, behavioral science, history and political science, health care, English, and the arts.

SPECIFIC ADMISSION REQUIREMENTS

In addition to the admission requirements outlined for the Master of Arts on p. 28 and general interdisciplinary requirements noted above, the following apply:

1. The student must have a minimum of 20 quarter credits in communication and adequate prerequisites for the other area or areas of study. Deficiencies must be made up at the beginning of a student's program and such courses are in addition to the regular graduate-degree course work. Students must complete at least 8 undergraduate credits in communication before registering for graduate course work in communication.
2. The student must have 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.

3. A supervising committee is appointed before students register for their second quarter in the program. This committee determines individual requirements for completion.

MA DEGREE REQUIREMENTS

1. Comply with the standards outlined in the Graduate Degree Academic Information section of the bulletin.
2. Complete a curriculum consisting of 48-60 credits of course work (see below) approved by the supervising committee.
3. Pass a comprehensive examination over the areas selected for the degree.

Communication Core 16
COMM515, 520 or an approved research class, 590, 650

Two projects 4-8
Selected from COMM589, 599, 695. Students consult with their adviser and with their 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) 16+
Selected with the approval of the other department(s) and the student's supervising committee.

Total MA degree credits required 48-60

MA in Interdisciplinary Studies—Humanities

Gary Land, Coordinator
Nethery Hall, Room 122
(616) 471-3292
history@andrews.edu
<http://www.andrews.edu/HIST/>

The Master of Arts: Interdisciplinary Studies—Humanities is designed for students who wish to acquire a breadth of knowledge not achievable within a single discipline.

SPECIFIC ADMISSION REQUIREMENTS

In addition to the admission requirements outlined for the Master of Arts on p. 28 and general interdisciplinary requirements above, students must have a major in one of the areas selected for graduate study. Those without such a major must earn a baccalaureate degree in at least one of the two areas of study proposed for the program.

A supervising committee is appointed before students complete their initial registration.

MA DEGREE REQUIREMENTS

1. Achieve a cumulative GPA of at least 3.00 (4.00 system) in a curriculum consisting of 48-60 credits of course work approved by the supervising committee and the Graduate Program Coordinator for the College of Arts and Sciences.
2. Demonstrate proficiency in a foreign language by presenting credit through the intermediate level taken in a bachelor's degree program within the past five years or by passing an

examination approved by the area coordinator.

3. Pass a comprehensive examination over the areas selected for the degree.
4. Complete an approved curriculum made up of components from two areas of emphasis (chosen from art, English, history, foreign language, music, or selected courses in communication as determined by the student's committee). The student must complete a minimum of 16 credits in each of these two areas. The course work is to include the following:

Core of Humanities Courses 24
IDSC525; Basic research course (in one of the two chosen areas); IDSC698 Research Project; and courses in a focused area (a minimum of 12 credits of course work deemed essential to the focus of the study).

Additional Interdisciplinary Courses 24
Chosen from the areas as approved by the supervisory committee

Further course work** 0-12

Total MA degree credits required 48-60

**As may be required to strengthen the other area(s) selected for graduate study not majored in at the undergraduate level.)

Details of course offerings and course descriptions may be obtained from the departments in which the student wishes to concentrate for his/her graduate studies. See p. 84 for enrollment procedures for this degree program.

MS in Interdisciplinary Studies—Mathematics and Physical Sciences

Robert E. Kingman, Coordinator
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The Master of Science in Interdisciplinary Studies—Mathematics and Physical Sciences is designed for students who wish to acquire a breadth of knowledge which cannot be achieved within any of the disciplines of chemistry, mathematics, or physics. Such a degree may be useful for junior-high or secondary teachers who teach several science subjects, but who do not desire the traditional MAT; for those who wish to develop their skills in the areas of overlap in these disciplines; for those who wish to study the relationships that exist among the disciplines; and for those who wish further preparation for careers in industry or government.

SPECIFIC ADMISSION REQUIREMENTS

Students admitted into the Master of Science: Interdisciplinary Studies—Mathematics and Physical Sciences program must hold a baccalaureate degree with a major in one of the above areas with a cumulative GPA of at least 2.60 (4.00 system) and have earned credit in the following prerequisite basic science courses: CHEM121, 122, 123; COSC125 (FORTRAN); MATH171, 172, 173, 282; PHYS251, 252, 253, 261, 262, 263. *A student may be admitted with deficiencies in the above courses, but this exception requires the student to take additional credits beyond the minimum 48 credits required.*

MS DEGREE REQUIREMENTS

1. Comply with all standards as given in the *Graduate Degree Academic Information* section of the bulletin.
2. Complete a curriculum consisting of 48-60 credits of course work (see below) approved by their supervising committee.
3. Pass a comprehensive examination over the two areas of science selected for the degree.

Core Courses 28
MATH401(4), COSC436 (4), CHEM421, 422 (8) or PHYS411(4) and PHYS430 (4), CHEM460 (4) or PHYS450 (4), IDSC526 (4), IDSC698 (2-4) may be repeated up to 8 credits, IDSC575 (2), undergraduate prerequisites* (0-12), and other courses recommended by the student's committee.

Total MS degree credits required 48-60

*Up to 12 credits selected from among the prerequisite basic science courses listed in the specific admission requirements are added to the minimum of 48 credits for the degree.

- The student must include at least 16 credits in each of the two disciplines selected for the degree.
- A student must complete a minimum of 24 credits in courses numbered 500 and above.

Courses (Credits)

See inside back cover for symbol code.

Details of departmental course offerings and course descriptions may be obtained from the department(s) involved. A list of enrollment and graduation procedures is available at the offices of the area coordinators and the Graduate Program Coordinator for the College of Arts and Sciences.

IDSC200 (4)
Christ in Music and Art

An investigation of religious themes in art and music inspired by the life of Christ. Also discussed are the Christian and the aesthetic experience, as well as principles for understanding and evaluating art and music from the Christian perspective. Not applicable toward a major or minor in Music or Art.

IDSC211 \$ (3)
Creativity and the Arts
Explores the creative process as it relates to theory and practice and to selected works of literature, music, and the visual arts. Includes approaches to the reading and critical analysis of verbal, visual, and aural texts. Explores the relationship between creativity and Christian values. Includes a lab.

IDSC237 \$ (4)
The Individual, State, and Marketplace
Politics and economics examined through classic and contemporary sources and Christian and ideological perspectives. What is the good life? What is the purpose of politics, and the best form of government? What are the implications for efficiency and equity of economic systems? Should government be responsible for the well-being of the individual and the economy?

IDSC321,322 \$ (4,4)
Scientific Inquiry I, II
Concepts from physics, chemistry, and biology,

organized in a sequence involving lab experimentation in scientific method. Topics include philosophical issues of origins and cosmology, ethical issues, and the environment. Prerequisites: MATH165, INSY110 or equivalent, STAT285.

IDSC340 (4)***Environmental Policy***

A survey of historic and current environmental issues, pending and existing legislation on the state and federal level, federal land management offices and their differing missions, and competing and non-competing demands from biodiversity to water usage. Prerequisites: BIOL204, 205 or consent of the instructor.

IDSC406,407,408 (1,1,1)***Environmental Science Seminar***

Discussion and presentations dealing with current or historic topics in environmental science.

IDSC440 (1-5)***Topics:* _____**

Designed to meet the needs of students with various interests in environmental science. Repeatable in different areas.

IDSC495 (1-5)***Independent Readings/Research in Environmental Science***

Independent readings or research in environmental science under the direction of the instructor. Consent of instructor required.

IDSC525 (4)***Christian Faith and the Humanities***

Examines the relationship of the Christian world view and the humanities to determine how they contribute to an understanding of the human as a creative being. Study is given to both the contributions of and the questions posed by a Christian perspective in art, history, literature, and music. An interdisciplinary course recommended for all graduate students in the humanities.

IDSC526 (4)***Christian Faith and the Sciences***

Discussion of science and epistemology in the context of Christian faith, scientific model building, the church-science interface, and ethical considerations. An interdisciplinary course recommended for all graduate students in the sciences.

IDSC575 (1)***Mathematics and Science Seminar***

Presentation of topics of current interest in mathematics and physical sciences. Repeatable to 3 credits.

IDSC650 (0)***Project Continuation*****IDSC660 (0)*****Thesis Continuation*****IDSC690 (1-4)*****Independent Study***

Individualized reading or research in a specified area under the guidance of an instructor. Repeatable to 6 credits.

IDSC698 (2-4)***Project***

Repeatable to 4 credits (8 for the MS degree in Interdisciplinary Studies). Project must include a research component.

INTERNATIONAL LANGUAGE STUDIES

Griggs Hall, Room 109
(616) 471-3180
language@andrews.edu
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Faculty

Michel Pichot, *Chair*
Eunice I. Dupertuis
Wolfgang F. P. Kunze
Pedro A. Navia

Academic Programs	Credits
BA: French Studies	45
BA: Spanish Studies	45
BA: Language for International Trade	90
BA/BBA in Language and International Business	215 total
Minor in French	30
Minor in Spanish	30
MAT (Language requirements only)	16-24

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 ethnic church activities.

Students wishing to study French or Spanish should attend one of the following campuses:

Adventist Colleges Abroad Full-year Study Options

- Centre Universitaire et Pédagogique du Salève
Collonges-sous-Salève, France
- Colegio Adventista de Sagunto,
Sagunto (Valencia), Spain
- Universidad Adventista del Plata
Entre Ríos, Argentina

Undergraduate Programs

BA: French Studies—45

Requires a minimum of 45 credits. These include FREN401, 402, or 445, and 420 or 430. All majors are required to attend a full academic year at the Adventist Colleges Abroad program at the Centre Universitaire et Pédagogique du Salève, 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.