School of Arts & Sciences

Mark M. Norris, Ph.D.
Dean
Introduction
The School of Arts and Sciences is home to many academic programs. These programs are offered through the following academic departments.

Art
Languages, Literature and Communication
History and Political Science
Music
Nursing (Bethel College program on the Grace College campus)
Science and Mathematics
Art Department

Faculty:

Kim M. Reiff, M.F.A.
Chair
Timothy W. Young, M.F.A.
J. D. Woods, M.Div.

Part-time Faculty:
Terry Armstrong, B.F.A.
Scott Holladay, B.A.
Don Swartzentruber, M.F.A.
The Art Department contributes to the life of Grace College students by expanding their knowledge, understanding, and appreciation of the visual arts. For art majors, the Art Department is committed to equipping students to create and communicate with expertise in a visually oriented world. Our goal is for each graduate to:

1. Be effective in communicating visually,
2. Possess professional, creative, and technical skills,
3. Have the ability to analyze works from structural, historical, and cultural perspectives,
4. Be knowledgeable about exemplary works of art from a variety of cultural and historical periods, and
5. Own a well-developed worldview that can articulate scriptural truth in their own work and in evaluating trends in contemporary art.

The Art Department is located in beautiful and historic Mount Memorial Hall. Built over a century ago, this newly restored Renaissance Revival building houses the Art Department’s own state-of-the-art computer graphics lab; drawing, painting, and ceramics studios; photography darkroom; workshop; offices; lecture rooms; and the Mount Memorial Art Gallery. The gallery displays the work of students, faculty, and regional artists, with a different exhibit each month of the school year.

Majors offered include
- Graphic Design
- Illustration
- Drawing/Painting
- Art Education
- Web Design and Development.

Students who elect to double major in two or more art programs must also fulfill the minor requirement if all of those chosen art programs require a minor. Students cannot major in an art program and also minor in art.

A Bachelor of Arts degree candidate completes the intermediate level courses of a foreign language or biblical language in addition to the requirements for Bachelor of Science. (3–6 credits)
GRAPHIC DESIGN
The requirement for this degree is 42 hours for a Bachelor of Science or 45–48 hours for a Bachelor of Arts.
The following courses are required:
Basic Art Courses
  ART120 Drawing I
  ART211 Two-Dimensional Design
  ART240 Painting I
  ART331 Art History: Beginning to Renaissance
  ART332 Art History: Renaissance to Modern
Graphic Design Courses
  ART230 Basic Graphic Design
  ART250 Computer Graphics: Design I
  ART255 Computer Graphics: Design II
  ART342 Typography
  ART343 Illustration Fundamentals
  ART442 Advanced Problems and Portfolio Design
Nine hours of electives are to be chosen from:
  ART122 Drawing II
  ART130 Photography I
  ART212 Three-Dimensional Design
  ART220 Ceramics I
  ART260 Digital Photography
  ART270 Life Drawing
  ART315 Printmaking
  ART318 Painting II
  ART320 Ceramics II
  ART324 Watercolor Painting
  ART483 Advanced Individual Study

ILLUSTRATION
The requirement for this degree is 42 hours for a Bachelor of Science or 45–48 hours for a Bachelor of Arts The following courses are required:
Basic Art Courses
  ART120 Drawing I
  ART211 Two-Dimensional Design
  ART240 Painting I
  ART331 Art History: Beginning to Renaissance
  ART332 Art History: Renaissance to Modern
Illustration Courses
  ART250 Computer Graphics: Design I
  ART255 Computer Graphics Design: II
ART270 Life Drawing  
ART343 Illustration Fundamentals  
ART350 Book and Editorial Illustration  
ART442 Advanced Problems and Portfolio Design  

Nine hours of electives are to be chosen from:  
  ART122 Drawing II  
  ART130 Photography I  
  ART212 Three-Dimensional Design  
  ART220 Ceramics I  
  ART260 Digital Photography  
  ART315 Printmaking  
  ART318 Painting II  
  ART320 Ceramics II  
  ART324 Watercolor Painting  
  ART483 Advanced Individual Study  

**DRAWING AND PAINTING**  
The requirement for this degree is 42 hours for a Bachelor of Science or 45–48 hours for a Bachelor of Arts. The following courses are required:  

**Basic Art Courses**  
  ART120 Drawing I  
  ART211 Two-Dimensional Design  
  ART240 Painting I  
  ART331 Art History: Beginning to Renaissance  
  ART332 Art History: Renaissance to Modern  

**Drawing/Painting Courses**  
  ART122 Drawing II  
  ART270 Life Drawing  
  ART318 Painting II  
  ART324 Watercolor Painting  
  ART450 Advanced Problems in Drawing and Painting  
  ART455 Senior Portfolio and Exhibition  

Nine hours of electives are to be chosen from:  
  ART130 Photography I  
  ART212 Three-Dimensional Design  
  ART220 Ceramics I  
  ART250 Computer Graphics: Design I  
  ART255 Computer Graphics: Design II  
  ART260 Digital Photography  
  ART315 Printmaking  
  ART320 Ceramics II
ART343 Illustration Fundamentals
ART483 Advanced Individual Studies

**ART EDUCATION**
The requirement for this Bachelor of Science degree is 42 hours for the content field of art, art history and art studio. A minor is not required.
The following courses are required:

**Basic Art Courses**
- ART120 Drawing I
- ART211 Two-Dimensional Design
- ART240 Painting I
- ART331 Art History: Beginning to Renaissance
- ART332 Art History: Renaissance to Modern

**Art Education Courses**
- ART130 Photography I
- ART212 Three-Dimensional Design
- ART250 Computer Graphics: Design I
- ART312 Methods of Teaching Visual Arts K-12 (formerly ART213 and ART314)
- ART315 Printmaking
- COM433 Media Production *

**Studio emphasis – choose ONE of the three packages**

**Drawing/Painting emphasis:**
- ART455 Senior Portfolio Exhibit
  Select two:
  - ART122 Drawing II
  - ART270 Life Drawing
  - ART318 Painting II

**Graphic Design emphasis:**
- ART422 Advanced Problems and Portfolio Design
  Select two:
  - ART230 Basic Graphic Design
  - ART255 Computer Graphics: Design II
  - ART342 Typography

**Illustration emphasis:**
- ART422 Advanced Problems and Portfolio Design
  Select two:
  - ART255 Computer Graphics: Design II
  - ART343 Illustration Fundamentals
  - ART350 Book and Editorial Illustration
May select the following to replace one course in any studio package emphasis:

   ART483 Advanced Individual Studies

*Note: COM433 Media Production is offered by the Languages, Literature and Communication Department. For more information on courses in communication, please see that portion of the catalog.

Professional Education Requirements
The following thirty-six hours of professional education courses are required for teacher certification.

   EDU 110 Foundations of Education
   EDU 235 Instructional Methods & Materials
   EDU 240 Educational Psychology
   EDU 244 Exceptional Learners
   ART 250 Computer Graphics: Design I (listed under Art Education courses)
   EDU 254 Diversity in the Classroom
   EDU 311 Classroom Management EDU 332 Professionalism in Teaching
   EDU 333 Classroom Assessment
   EDU 430 Philosophy of Education
   EDU 471 Student Teaching
   EDU 495 Senior Seminar

WEB DESIGN AND DEVELOPMENT
The requirement for this degree is 42 hours for a Bachelor of Science or 45–48 hours for a Bachelor of Arts. A minor is not required. See program overview at the end of this catalog.

This program is designed to prepare students for professional careers, which utilize both artistic design and technology development skills.

This major will provide a foundational understanding by integrating courses and competencies from both the Art department and the Information Systems program. Uniquely balancing both aspects of design and development, the students will be capable of creating an aesthetically pleasing design, as well as implementing their design through the development of a functional web product.

The following courses are required:
Graphic Design Foundation
   ART120 Drawing I
   ART211 Two-Dimensional Design
   ART230 Basic Graphic Design
   ART250 Computer Graphics: Design I
ART255 Computer Graphics: Design II
ART332 Art History: Renaissance to Modern

Information Systems Foundation*
ISM110 Introduction to Technology
ISM210 Computer Programming
ISM270 HTML & Web Development
ISM340 Database
ISM410 Advanced Programming
Select one of the following:
ISM220 Introduction to Networking
ISM345 Systems Analysis and Design
Select one Marketing Component:
MKT215 Marketing Principles
COM346 Organizational Communication/Behavior
Capstone Course
ART442 Advanced Problems and Portfolio Design

*NOTE: ISM and MKT course numbers are offered by the School of Business. For more information on these and other Marketing and Information Systems courses, please refer to that portion of the catalog. COM course numbers are offered by the Languages, Literature and Communication Department. Please refer to that portion of the catalog for more information.

ART MINOR
The requirement for a minor in art is 24 hours in the Art Department. The following courses are required:
ART120 Drawing I
ART211 Two-Dimensional Design
ART331 Art History: Beginning to Renaissance
ART332 Art History: Renaissance to Modern

Students also select nine hours from one of three options:

Graphic Design
ART230 Basic Graphic Design
ART250 Computer Graphics: Design I
ART255 Computer Graphics: Design II

Drawing/Painting
ART122 Drawing II
ART240 Painting I
ART318 Painting II

Three-Dimensional Problems
ART212 Three-Dimensional Design
ART220 Ceramics I
ART320 Ceramics II

Three hours of electives are to be chosen from:
ART122 Drawing II
ART130 Photography I
ART240 Painting I
ART250 Computer Graphics: Design I
ART255 Computer Graphics: Design II
ART260 Digital Photography
ART270 Life Drawing
ART315 Printmaking
ART318 Painting II
ART324 Watercolor Painting
ART342 Typography
ART343 Illustration Fundamentals
ART483 Advanced Individual Studies

(Electives cannot duplicate a core option course.)
COURSE DESCRIPTIONS

ART100 Art Appreciation
Art Appreciation is a liberal arts course that seeks to expand the student’s knowledge, understanding, and appreciation of the visual arts. Exposure to great art and knowledge of objective criteria for evaluating it gives students the advantage of sound judgment, both in their own aesthetic choices and in their evaluation of the choices of others. The course is designed specifically to raise the level of awareness of students to the world of visual art that surrounds them. Three hours.

ART120 Drawing I
This course is for the beginning art student, focusing on basic drawing principles and developing visual perception. The primary emphasis is on structural drawing and is accomplished using varied studio exercises. Three hours.

ART122 Drawing II
Drawing II explores the expressive applications of the student’s drawing ability. Included are experiments with various media and problems in structural drawing, expressive sketching, and experimental techniques. Prerequisite: ART120. Three hours.

ART130 Photography I
An introduction to the fine art of photography, this course will emphasize creative and technical aspects of black-and-white photography. Study will include composition, aesthetic awareness, darkroom procedures and alternative processes. Prerequisite: Art major or minor. Three hours.

ART210 Elementary School Visual Arts
(For elementary education majors): This is a practical course for prospective elementary teachers. Students will be introduced to instructional strategies used to teach children the various aspects of art through simple projects or integration into the regular elementary curriculum. Students will learn how to deal with problems that might arise in the integrated classroom setting. Creating art projects and discussing integrated methodologies for the elementary curriculum are included. Two hours.

ART211 Two-Dimensional Design
From the simple application of color to the complex devices that create illusionary space, this foundational course concentrates on the basic elements of two-dimensional design. Students will be challenged to think aesthetically and theoretically as they apply methods for creative problem solving. Three hours.
ART212 Three-Dimensional Design
This is an introductory course to the varied principles of three-dimensional design. Projects explore traditional and modern materials such as clay, wood, plastic, and metal. Three hours.

ART215 American Art History
This course is a survey of American art forms from Early Colonial times to the present day. The primary focus is on the emergence of Western European art traditions and how they became part of the art of the U.S.A. Study will include occasional and brief interactions with the cultures of India, China, Japan, the native Americas, Africa, and the South Pacific. Students will explore how America's cultural, political, and religious ideals are reflected in its visual arts. Three hours.

ART220 Ceramics I
An introduction to the study of ceramics as a three-dimensional medium. Through hand-constructed and wheel-thrown clay forms, students will explore issues in contemporary art. Ceramics processes will include glazing and firing. Prerequisite: Art major or minor. Three hours.

ART230 Basic Graphic Design
A course that uses project assignments to teach the application of visual graphic communication techniques as well as functional art production and printing processes. Prerequisites: ART210, ART211. Three hours.

ART240 Painting I
The study and application of the oil painting media with an emphasis on a technical working knowledge and its application to a personal style. Three hours.

ART250 Computer Graphics: Design I
This computer laboratory course for the graphic designer concentrates on all aspects of desktop publishing for print and web page design and layout. Software covered includes Adobe InDesign and Adobe Dreamweaver. Prerequisites: ART210, ART211. Three hours.

ART255 Computer Graphics: Design II
A computer laboratory course that focuses on the software used by graphic designers and illustrators to edit images and to utilize innovative illustration techniques for print and web page design. The major software programs explored are Adobe Photoshop and Adobe Illustrator. Prerequisite: ART120 and ART211. Three hours.

ART260 Digital Photography
Students explore digital photography as a tool for media communication. Contemporary issues will include ethics in story telling and professional
practices, file management, digital problem solving, and computer editing techniques. Three hours.

**ART270 Life Drawing**
This course focuses on the theory and practice of drawing life forms from constructive anatomical human figures to mammal and microorganism studies. The course includes field trips, sketch book journal development, and models. Prerequisite: ART120. Three hours.

**ART312 Methods of Teaching Visual Arts K–12**
(Formerly ART213 and ART314)
An experience–based visual arts methods course for prospective art teachers. Instructional strategies used to teach K–12 students the basic elements of creating and producing visual art forms will be introduced. Methods for integrating a variety of media, tools, and processes, teaching art history, art criticism, and aesthetics will also be presented. Developing lesson plans, implementation and assessment are included. Three hours.

**ART315 Printmaking**
This is an introductory survey course in the traditional media of printmaking. Students apply their drawing and design skills to express their ideas through application of printmaking methods such as woodcuts, linocuts, intaglio, serigraphy, and lithography. Three hours.

**ART318 Painting II**
Students learn the advanced techniques and skills in the oil medium. Themes will include landscape, still life, and the portrait. Prerequisite: ART240. Three hours.

**ART320 Ceramics II**
This course is a continuation of technical skills, aesthetic theory, and advanced exploration of the material. Students may choose: methods of hand building, wheel throwing, or nontraditional ideology. Through in–depth study of form, surface design, glaze chemistry, and firing techniques students will develop a cohesive, professional, body of work. Prerequisite: ART 220. Three hours.

**ART324 Watercolor Painting**
This course is an introduction to basic watercolor methods and techniques. Students will develop an understanding of transparent watercolor by exploring the mechanics of the medium with assignments designed to combine basic techniques with the realm of creativity and expression. Three hours.

**ART331 Art History: Beginning to Renaissance**
This is a survey of art forms from ancient times to the Renaissance. The primary focus is on the Western European art traditions, however, when
the occasion warrants it, the cultures of India, China, Japan, the native Americas, Africa, and the South Pacific are discussed. Three hours.

**ART332 Art History: Renaissance to Modern**
This art history course is a survey of art forms from the Renaissance to the present. The primary focus is on the Western European art traditions, however, when the occasion warrants it, the cultures of India, China, Japan, the native Americas, Africa, and the South Pacific are discussed. Three hours.

**ART342 Typography**
A study of the various uses and styles of letter forms with an emphasis on their application to solving graphic communication problems. Prerequisites: ART230, ART250. Three hours.

**ART343 Illustration Fundamentals**
This course provides a foundational understanding of the field of illustration. The student will gain experience in the process of designing and creating illustrations, as well as explore the various illustration markets such as advertising, editorial, publishing and technical illustration. This will include a survey of historical and current trends in American illustration, and an introduction to basic business and organizational practices found in an illustration enterprise. Prerequisites: ART120, ART211. Three hours.

**ART350 Book and Editorial Illustration**
This course is geared toward developing a portfolio of work that focuses on illustration as a visual extension of text, as found in children's book, editorial, and publishing markets. Continued emphasis is placed on critical thinking in illustration design and improving illustration skills. Time is spent developing professional practices, and in exploring and understanding the student's own personal style and individual expression. Prerequisite: ART343. Three hours.

**ART442 Advanced Problems and Portfolio Design**
A senior capstone course in developing approaches to solving graphic communication problems. Included will be the artist’s solution to presenting himself in the form of a professional portfolio. Prerequisites: ART342, ART343. Three hours.

**ART450 Advanced Problems in Drawing/Painting**
The student pursues a personal style by concentrating on a specific approach, media, and theme in drawing and painting. Emphasis is given to the development of a visual statement supporting personal interpretation. Prerequisites: ART122, ART318. Three hours.

**ART455 Senior Portfolio and Exhibition**
Seniors further their development of a personal style in drawing and painting in this capstone course. Topics include preparation of a portfolio and exhibition and issues such as documenting work, seeking grants, and understanding legal issues and contracts. Prerequisites: ART122, ART318. Three hours.

**ART472–473 Graphic Design Internship**
As positions become available, qualified senior graphic design majors can receive on-the-job training at a local cooperating organization. Periodic evaluations of the student’s progress are submitted by the organization to the overseeing instructor. Prerequisite: approval by department chair. Two or three hours.

**ART482–483 Advanced Individual Studies**
This art-based research course allows investigation of advanced problems in specific areas of study for the individual who has completed the basic courses of instruction and desires to work in-depth in a particular area of interest. Prerequisite: permission of the instructor. Two or three hours. May be repeated up to 6 hours.
Languages, Literature & Communication Department

Faculty:
Paulette G. Sauders, Ph.D.
Chair
Frank S. Benyousky, M.Div.
Joseph P. Lehmann, M.A.
Benjamin Navarro, M.A.
Jacqueline Schram, M.A.
Michael L. Yocum, M.A.

Part-time Faculty:
Kathleen Allison, M.S.
Randy R. Maxson, M.A.
Jean Shen, M.A.
Cliffton Staton, M.A.
Terry D. White, M.A.
English and Journalism Program Purpose Statement

As one of the core academic disciplines of the liberal arts, English and Journalism has two main purposes: 1) to deepen the individual’s awareness of life through encounter with the literate legacy of human experience, and 2) to offer constructive ways of contributing to society by means of writing, teaching, and literate leadership.

The courses in this department acquaint the student with the literature of the liberal arts, providing training and experience in the communicative skills. Specific courses are designed to prepare the major for graduate studies in English and journalism, for writing and editing positions, and for the teaching of English and journalism on the middle school and secondary education levels.

The English major and minor are also desirable for individuals who seek positions of leadership in the world of the professions, writing, business, and industry, and offers as well a suitable preparation for theological studies.

The journalism major and minor are intended for those who wish to develop writing and editing skills for use in the print media, broadcast media, the business world, as well as in creative writing.

Programs offered in this department are the major in English, the major in journalism, the minor in English, and the minor in journalism. Also offered are the teaching major and minor in English, the teaching major and minor in journalism, a certificate or minor in TESOL, (Teaching English to Speakers of Other Languages) and the linguistics major and minor. (See conclusion of department section.)

English Major (B.A.)

The course requirement for a major in English is 50–53 hours in the department including:
- ENG315 Creative Writing
- ENG335 Modern American Grammar
- ENG336 History of the English Language
- ENG494 English Senior Seminar
- JOU161 Practical Journalism
- LIT213 English Literature I (449–1800)
- LIT214 English Literature II (1800–Present)
- LIT220 American Literature I (1600–1850)
- LIT221 American Literature II (1850–Present)
- LIT325 Introduction to Poetry
- LIT327 World Literature
- LIT328 Shakespeare
- LIT360 Principles of Literary Criticism
12 hours of literature electives, and also three to six hours of a foreign language at the 200 level to meet B.A. requirements. A student with prior high school language experience may have this language requirement reduced if he/she receives the required credits through examination. A minor is required.

**English Education Major (B.A.)**

In addition to fulfilling the Professional Education requirements in the School of Education, the requirement for a teaching major in English is 47–50 hours in the department’s program, including:

- ENG315 Creative Writing
- ENG334 Supervision of School Publications
- ENG335 Modern American Grammar
- ENG336 History of the English Language
- ENG363 Methods of Teaching Secondary English
- ENG494 English Senior Seminar
- JOU161 Practical Journalism
- LIT213 English Literature I (449–1800)
- LIT214 English Literature II (1800–Present)
- LIT220 American Literature I (1600–1850)
- LIT221 American Literature II (1850–Present)
- LIT323 Introduction to Fiction
- LIT325 Introduction to Poetry
- LIT326 Introduction to Drama
- LIT327 World Literature
- LIT328 Shakespeare
- LIT360 Principles of Literary Criticism

**Professional Education Requirements:**

- EDU110 Foundations of Education
- EDU235 Instructional Methods & Materials
- EDU240 Educational Psychology
- EDU244 Exceptional Learners
- EDU254 Diversity in the Classroom
- EDU 265 Computer Applications in Education
- EDU311 Classroom Management
- EDU332 Professionalism in Teaching
- EDU333 Classroom Assessment
- EDU430 Philosophy of Education
- EDU475 Student Teaching
- EDU 495 Senior Seminar

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The student must also satisfy the same B.A. language requirements as for the institutional English major. No minor is required.

**English Minor**

The requirement for a minor in English is 24 hours in the department, including:

- ENG335 Modern American Grammar
- LIT213 English Literature I (449–1800)
- LIT214 English Literature II (1800–Present)
- LIT220 American Literature I (1600–1850)
- LIT221 American Literature II (1850–Present)
- LIT360 Principles of Literary Criticism
- and six hours of English or literature electives.

**Journalism Major**

The course requirement for a major in Journalism is 48–53 hours in the department, including:

- ART130 Photography I
- COM113 Introduction to Mass Communication
- COM217 Communication Ethics/Theories
- COM423 Public Relations
- ENG315 Creative Writing
- JOU161–163 Practical Journalism
- JOU214 Newspaper Journalism
- JOU270 Design and Layout for Journalists
- JOU313 Editing
- JOU314 Writing for Publication
- JOU315 Advanced Newspaper Journalism
- JOU491–493 Journalism Internship
- JOU494 Journalism Senior Seminar
- MKT215 Marketing Principles

Choose one of the following:
- COM303 Persuasion
- COM414 Argumentation and Debate

Choose one of the following:
- ART260 Digital Photography
- COM202 Advanced Presentation Skills
- COM346 Organizational Communication and Behavior
- COM424 Public Relations & Advertising Writing
- COM433 Media Production
- ENG334 Supervision of School Publications
The B.A. in Journalism requires the completion of the intermediate level of a foreign language. The B.S. in Journalism requires the completion of one semester of a foreign language. Extracurricular opportunities for journalism involvement include the campus newspaper, yearbook, literary magazine, and contact with local newspapers and media producers.

**Journalism Education Major**

In addition to fulfilling the Professional Education requirements in the School of Education, the course requirement for a major in Journalism Education is 50–56 hours in the department, including:

- ART130 Photography I
- COM113 Introduction to Mass Communication
- COM217 Communication Ethics/Theories
- COM423 Public Relations
- ENG315 Creative Writing
- ENG334 Supervision of School Publications
- JOU161–163 Practical Journalism
- JOU214 Newspaper Journalism
- JOU270 Design and Layout for Journalists
- JOU313 Editing
- JOU314 Writing for Publication
- JOU315 Advanced Newspaper Journalism
- JOU363 Methods of Teaching Journalism
- JOU491–493 Journalism Internship
- JOU494 Journalism Senior Seminar
- MKT215 Marketing Principles

Choose one of the following:
- COM303 Persuasion
- COM414 Argumentation and Debate

**Professional Education Requirements:**

- EDU110 Foundations of Education
- EDU235 Instructional Methods & Materials
- EDU240 Educational Psychology
- EDU244 Exceptional Learners
- EDU254 Diversity in the Classroom
- EDU265 Computer Applications in Education
- EDU311 Classroom Management
- EDU332 Professionalism in Teaching
- EDU333 Classroom Assessment
- EDU430 Philosophy of Education
- EDU475 Student Teaching
EDU495 Senior Seminar

The B.A. in Journalism Education requires the completion of the intermediate level of a foreign language. The B.S. in Journalism Education requires the completion of one semester of a foreign language.

Journalism Minor

The requirement for a minor in journalism is 21 hours in journalism and related courses, including:

- COM113 Introduction to Mass Communication
- JOU161–163 Practical Journalism
- JOU214 Newspaper Journalism
- JOU313 Editing

Electives that may be used to complete the 21 hours of journalism include:

- ART130 Photography I
- ART260 Digital Photography
- COM423 Public Relations
- ENG315 Creative Writing
- ENG334 Supervision of School Publications
- JOU270 Design and Layout for Journalists
- JOU314 Writing for Publication
- JOU315 Advanced Newspaper Journalism
- JOU491–493 Journalism Internship

TESOL Certificate or Minor

A 18 hour minor in the Teaching of English to Speakers of Other Languages is available to interested applicants. Requirements for a TESOL certificate and a minor include:

- ENG330 Introduction to Linguistics
- ENG335 Modern American Grammar
- ENG360 TESOL Methods
- ENG361 TESOL Practicum
- FLC 464 Methods Teaching Foreign Languages
- ICS311 Intercultural Communication

The TESOL certificate and minor are targeted for teaching adults and for a global ministry setting and is not certifiable for teaching in state-accredited schools, nor is it a part of the School of Education program. Consult the department chairman for further information.

Linguistics Program

For students who are motivated to serve as missionary translators and literacy workers in diverse ethnic cultures, Grace College offers the B.A. degree with a
major in linguistics in cooperation with the Summer Institute of Linguistics. The minor in linguistics is offered as well on this basis.

Along with fulfilling the general education requirements of Grace College, the student must take appropriate courses at one of the various S.I.L. Centers in North America. Students may begin the summer courses after the sophomore year, and must be prepared to spend three summers at S.I.L. Institutes for the linguistics major, and two summers for the minor. Specific information about courses is available from Summer Institute of Linguistics (also known as Graduate Institute of Applied Linguistics), 7500 West Camp Wisdom Road, Dallas, TX 75236, 800.892.3356. Web sites are: http://www.gial.org and http://www.sil.org/training. Consult the chair of the Language, Literature and Communication Department at Grace College for further information.

Since the programs at various Summer Institute of Linguistics centers differ slightly, the course work established at the selected site of study will be accepted for a linguistics major comprised of at least 31 hours of S.I.L. credits, including coverage in areas of phonetics, morphology, grammatical analysis, field methods, and translation principles, in addition to the three hours in Modern American Grammar to be taken at Grace College.

For the linguistics minor, 19 hours of S.I.L. study in the areas of phonetics, morphology, grammatical analysis, and field methods are required, in addition to three hours in Modern American Grammar to be taken at Grace College.

**For the Linguistics major, the credit hour requirements are as follows:**

1. General Education.................................................................51
2. Linguistics major at S.I.L......................................................31
3. Modern American Grammar (at Grace) ...............................3
4. Minor (Greek or Biblical Languages minor recommended) 20–22
5. Elective courses.................................................................7–19
   TOTAL 124........................................................................... credit hours

**For the Linguistics minor:**

1. Linguistics minor at S.I.L......................................................19
2. Modern American Grammar (at Grace).................................3
   TOTAL CREDITS.................................................................... 22
FOREIGN LANGUAGES

Our Purpose
The purpose of the Grace College Foreign Language program is to equip individuals to serve Christ in a global community through language proficiency, cultural competence, and general knowledge of the humanities.

Programmatic Goals
Programmatic goals include: becoming optimal learners through language acquisition, communicating in another language, gaining knowledge and understanding of other cultures, and living intentionally as global citizens.

Our Distinctive
The requirement for overseas study distinguishes the Grace Language program from other programs. The purpose of courses offered on campus is to prepare students for the Study Abroad Program. Another distinctive is the language pledge that students sign upon acceptance into the Study Abroad Program, by which students commit to primarily speak the target language during their overseas study.

Liberal Arts Elective
Every student is required to take three credits of a foreign language, an ancient language or a cultures elective at Grace College as part of the Humanities component of the Liberal Arts Curriculum. Students with prior language study who plan to opt for proficiency language and culture are encouraged to take the departmental language examination for accurate placement (see Course Credit by Examination). Credit by examination cannot be obtained for the liberal arts elective.

Students can select from the following areas:

Proficiency Language and Culture
CHI 101, and 102 Beginning Chinese. Three hours each
FRE101, 102, 201, and 202 Beginning and Intermediate French. Three hours each.
SPA101, 102, 201, and 202 Beginning and Intermediate Spanish. Three hours each.

NOTE: The language requirement for students pursuing a B.A., language minor, or language major meet the liberal arts core elective.

Ancient Languages
GRE101, 102, 201 and 204 Greek I and II, Greek Exegesis I and II. Three hours each.
HEB101, 102, 201 and 208 Hebrew I and II, Hebrew Exegesis I and II. Three hours each.

Course Credit by Examination
Students with prior language training pursuing a Bachelor of Arts, a minor or major in language may receive up to nine credit hours by examination or the equivalent of FRE/SPA101, 102 and 201 by taking the language placement examination. Students may also receive six credit hours through examination by receiving a score of “4” or “5” on a Language Advance Placement Examination.

The language examination is administered online and can be taken at any time.

Directions to complete the Language Placement Examination
Students go to http://webcape.byuhtrsc.org/. They select “Grace College” on the pull-down menu, type in “Lingua” as the password, select “French” or “Spanish” as the language, complete the short survey, and begin the examination. Each question is selected based on previous responses and the test is usually completed within 30 to 45 minutes. The cost of the examination is $30, which will be charged to the Grace College account.

Foreign Transfer Credits
Students who have received the equivalent of a high school diploma in a country in which French or Spanish was the primary language can be granted a minor through transfer credits. In order to receive transfer credits, students must submit the foreign high school transcript to the Languages, Literature and Communication Department and receive a score equivalent to four semesters of language on the Wisconsin Placement Examination at a cost of $65.

Students who have received the equivalent of a high school diploma in a country in which the language is other than English, French, or Spanish can be granted the language requirement for a B.A. through transfer credits. In order to receive transfer credits, students must submit the foreign high school transcript to the Languages, Literature and Communication Department and enroll in Global Experience.

Bachelor of Arts
The Bachelor of Arts requires a language component of two years or the equivalent of beginning and intermediate levels of French or Spanish, totaling 12 credit hours.
Foreign Language Majors

International Languages is a unique and ambitious major, designed for the language expert. It is intended for individuals who want to attain proficiency in three languages beyond English. Students will gain an advanced level of proficiency in French and Spanish and will gain an intermediate level in one of the following languages: Biblical Greek and Hebrew, German, Chinese, Arabic, and Russian. This major is recommended for students who have had previous successful study in language. The requirement for an International Languages major is 66–69 credits in the department. No minor is required.

If students wish to attain proficiency in one language, the French or Spanish majors provide an opportunity for focused study. The requirement for the language majors is 42 hours in the department. Minor is required.

For all language majors, at least 28 hours must be taken at an approved university or institute overseas.

Teaching Foreign Language Majors

The requirement for a teaching major in French and Spanish is 39 semester hours in the department. At least 28 of these hours must be taken at an approved university or institute overseas. In addition to the above requirements, a student must also meet the requirements of the professional education core, a total of 40 semester hours.

Foreign Language Minors

Students must complete 21 hours of intermediate and advanced language study in order to fulfill the requirements for the minor in French and Spanish. At least 12 of these hours must be taken at an approved university or institute overseas.

COMMUNICATION

The communication program aims to promote an awareness of the complexities of the human communication process, to assist in the refinement of communication skills, and to encourage the free and responsible use of communication abilities and mediums.

The study of communication is especially recommended for students who are considering future occupations or training in areas such as public relations, theatre, management, missions, journalism, counseling, the youth pastorate, marketing, consulting, law, media communications, personnel management, teaching, or the ministry.

Students majoring in Communication choose one of the following: Communication Studies, Public Relations, Theatre, and Film Studies (requires
off-campus semester). Each major begins with a core of courses taken by all communication majors; this core surveys the major and acquaints the student with issues of primary interest to those who work in the field.

Each specialization then requires students to complete 15 hours in the chosen area of study. These courses take students deeper into their chosen area, in many instances making appropriate connections with another discipline area on campus (such as the School of Business or the Languages, Literature and Communication Department). Thus the major helps the student integrate communication with other areas of study, build a sense of the oneness or unity of all their studies, and broaden the practicality of work done in the major. Work done in the major should lead students to a clearer career outcome.

The last area of courses taken by each major consists of 12 hours of elective courses to be chosen from courses offered or approved by the department. While for some tracks a few more specifically designated courses are recommended to deepen the integration work mentioned above, students are not required to take these recommended courses as they round out their majors with elective credits.

Part of our intention in defining integrative majors is to give the interested student an easier time assembling a double major. The courses in the first major will not complete the second major in the department, but they will take the student a good way towards that goal.

**Required Courses for all Communication Majors**
- COM113 Introduction to Mass Communication
- COM202* Advanced Presentation Skills
- COM213 Interpersonal Communication
- COM217 Communication Ethics & Theories
- COM321 Introduction to Theatre
- COM346 Organizational Communication and Behavior
- COM423 Public Relations Principles

**Communication Studies Specialization**
- COM203 Intercultural Communication
- COM216* Small Group Communication
- COM323 Oral Interpretation
One of the following:
  - COM303 Persuasion
  - COM414 Argumentation & Debate
One of the following:
  - COM327 Introduction to Cinema
  - COM330 Film, Faith, and Popular Culture
In addition students must complete 12 hours of general electives.
Note: *indicates capstone course.

Public Relations Specialization
  MKT215 Marketing Principles
  COM424 Public Relations and Advertising
  MKT415 Marketing Research
  MKT417 Advanced Marketing
  JOU314 Writing for Publication
  In addition students must complete 12 hours of general electives.
  Note:* indicates a course with prerequisites.

Theatre Specialization
  COM311–313 Stagecraft
  COM325 Fundamentals of Acting
  COM425 Directing
  COM426* Religious Drama Workshop
  One of the following:
    LIT326 Introduction to Drama
    COM330 Film, Faith, and Popular Culture
  Note: *indicates capstone course.

Film Studies Specialization
  COM001 L.A.F.S.C. (16-credit program offered through CCCU Best Semester Program at the Los Angeles Film Studies Center)

Communication Minor
  (For students with majors outside of the department)
  COM202 Advanced Presentation Skills
  One of the following:
    COM217 Communication Ethics/Theories
    COM303 Persuasion
  One of the following:
    COM113 Introduction to Mass Communication
    COM213 Interpersonal Communication
  Electives (12 hours of elective courses to be chosen from courses offered or approved by the department)
  Note: * indicates a course with prerequisites.
COURSES

ENGLISH COURSES

ENG011 English for International Students
A course specifically designed and taught for incoming students whose first language is other than English and who need concentrated attention to English pronunciation, idioms, and grammar from an English as a Second Language approach. Placement in the course is by TOEFL and TWE (Test of Written English) scores. Two hours.

ENG102 Principles of Writing
A foundational college course in grammar and composition designed to help prepare those students who, on the basis of ACT and SAT verbal scores and high school English grades, are not prepared to succeed in ENG 110 Effective Writing. Grammar review, paragraph writing, and essay writing are studied and practiced. Three hours.

ENG110 Effective Writing
The principles involved in writing clear expository, persuasive, and researched papers are studied and practiced. In addition, the English language is examined from a linguistic perspective. Three hours.

ENG315 Creative Writing
An advanced course emphasizing the process of narrative and creative writing. Clear expository writing is also stressed. The course offers a workshop approach with revision techniques and mutual criticism. Three hours.

ENG330 Introduction to Linguistics
A survey of the primary features of language, including phonology, morphology, semantics, first and second language acquisition, how the brain processes languages, and how languages change through linguistic examples and exercises drawn from a world-wide sample of languages. Three hours.

ENG334 Supervision of School Publications
A study of the advising, writing, editing, organization, and business management of school newspapers, yearbooks, and literary magazines, and the teaching of high school courses in journalism. Two hours.

ENG335 Modern American Grammar
A contemporary survey of English covering traditional grammar, structural linguistics, and transformational grammar. The course covers grammar and usage on a theoretical and explanatory basis, dealing as well in dialectology and the linguistic features of Black and Spanish-influenced English. Three hours.
ENG336 History of the English Language
An historical survey of the backgrounds and development of the English language from Indo-European origins to the present. Students gain experience reading Old and Middle English texts and studying medieval English dialects. Semantics, methods of word formation, lexicography, and differences between American and global English are covered. Two hours.

ENG360 Teaching English to Speakers of Other Languages (TESOL) Methods
An introduction to the current approaches to teaching English to non-native speakers and the theories of language learning which inform them. The course will review those features of English which non-native speakers find difficult and methods of teaching these features, as well as giving students experience in preparing lessons and teaching materials. Students are required to observe an ESL class and act as a tutor or conversation partner for a non-native language learner. Prerequisites: ENG335 and FLC464. Three hours.

ENG361 Teaching English to Speakers of Other Languages (TESOL) Practicum
Supervised teaching experience in the U.S. or abroad. Students will prepare lessons and materials and teach them to non-native English language learners and assess student progress. The class will meet weekly to discuss issues and concerns and share resources. Minimum of 50 hours teaching experience. Prerequisite: ENG360 Three hours.

ENG363 Methods of Teaching Secondary English
A study of the philosophy, curriculum, and methods of teaching English on the secondary level, concentrating upon skills, knowledge, and dispositions which need to be possessed by the teacher and fostered among students. Tutorial and observational contact with the secondary school is an integral part of the course. Three hours.

ENG494 English Senior Seminar
Required of all students majoring in English. Designed to integrate previous studies in English and the liberal arts, the course stresses the refinement of the student’s synthetic and analytical abilities by providing for individual projects and discussions of selected topics relevant to literary criticism and the humanities. Three hours.

LIT210 The Literature of Mankind
Reading, discussion, and projects concentrating on select works of international scope to develop the student’s ability to apply critical themes of interpretation to the contribution made by literature to human experience. May be used as a literature elective for liberal arts requirements. Three hours.
LIT213 English Literature I 449–1800
A study of the literature of England from the Anglo-Saxon period to the end of the Neo- Classical Age, noting genres, trends, personages, philosophies, and critical theories. Representative longer works from British sources are included. May be used as a literature elective for liberal arts requirements. Three hours.

LIT214 English Literature II 1800– present
A continuation of the previous course, concentrating on Romantic, Victorian, and twentieth century British poetry, fiction, and prose of each era and supplemented by pertinent novels. May be used as a literature elective for liberal arts requirements. Three hours.

LIT220 American Literature I 1600– 1850
A survey of the development of American literature from colonial times through revolutionist, romantic, and transcendentalist prose, poetry, and fiction up to mid-nineteenth century, augmented by select longer fictional works. May be used as a literature elective for liberal arts requirements. Three hours.

LIT221 American Literature II 1850– present
A continuation of the above course concentrating on the rise of realism, modernist, and post-modernist literature in the genres of poetry, fiction, and prose, supported by select longer fictional works. May be used as a literature elective for liberal arts requirements. Three hours.

LIT323 Introduction to Fiction
A study of fiction as a major form of literature, including representative novels and short stories from both mainstream and minority cultures. The course deals in techniques of analysis, historical development of the genre, and works of fictional criticism. Two hours.

LIT324 Christian Classics
A survey of the most significant contributions in Christian literature including such authors as C.S. Lewis, Dante, Milton, Bunyan, MacDonald, Tolkien, and Flannery O’Connor. The course is designed to provide an integration of theology and literature, with special emphasis on close reading, interpretative analysis, and aesthetic appreciation of the literature. May be used as a literature elective for liberal arts requirements. Three hours.

LIT325 Introduction to Poetry
A study of poetry as a major form of literature, including an analysis of its verse forms, techniques of expression, and aesthetic values, along with thematic considerations. Two hours.

LIT326 Introduction to Drama
A study of drama as a major form of literature, including the history and interpretative analysis of dramatic literature. Examples of ancient, medieval, neoclassical, modern, and experimental drama are covered. Two hours.
LIT327 World Literature
A survey of the prominent literature from Europe, as well as from the rest of the world, excluding Britain and the U.S.A. By examining epics, dramas, short stories, novels, and poems, the student obtains a balanced background in the literary traditions which have arisen in diverse cultures. May be used as a literature elective for liberal arts requirements. Three hours.

LIT328 Shakespeare
A study of the era, life, and works of this great literary master, with a close reading and video viewing of histories, comedies, and tragedies, as well as a study of his other poetic contributions. May be used as a literature elective for liberal arts requirements. Three hours.

LIT340 Hawthorne and Melville
A concentrated study of two major nineteenth century American authors, covering biography, short fiction, longer fiction, and for Melville, selected poetry. Two hours.

LIT341 Hemingway and Faulkner
An extensive study of two major twentieth century American authors, covering biography, short fiction, and selected novels. Two hours.

LIT350 Classical Mythology
A thorough encounter with the major myths of the Greek and Roman world, both by systematic study and by contacts with texts of central informing sources. Two hours.

LIT351 Romanticism
Close contact is provided with significant works of the pre-romantics and the major romantics, in poetry and in prose form. Two hours.

LIT352 Victorian Literature
The works of major and lesser Victorian English writers in poetry and fiction are discussed, such as Tennyson, Browning, and others. Two hours.

LIT353 Contemporary Literature
Movements from modernism through postmodernism are exemplified in the writings of prominent authors of British, American, and Continental literature. Two hours.

LIT360 Principles of Literary Criticism
A study with intensive concentration on the various theories and schools of literary criticism, such as formalism, new historicism, deconstruction, dialogism, and basic textual criticism, among others. Representative readings and application to selected texts are features of the course to provide the student with precise skills in explications of texts. Three hours.
LIT365 Adolescent Literature
A study of the philosophy, genres, and implications of teaching literature at the middle school level. The course stresses the transition from reading as a component in developmental, elementary language arts, to reading as an investment in lifelong, personal learning skills. Course participants both explore theoretical principles of instruction and experience representative works of merit. Two hours.

LIT381–382 Readings in Literature
Outstanding works of fiction, drama, poetry, and criticism are selected for study in consultation with the student to meet his special needs and interests. Tailored primarily for those not majoring or minoring in English, the course also features literary analysis projects and conferences with the course advisor. One or two hours.

LIT385–386 Readings in Comparative Literature
A comparative study of literary works whose themes cross national, temporal, or generic boundaries. Comparative analysis of works selected by the student and advisor is undertaken in the areas of drama, poetry, and fiction, dealing with such matters as the Arthurian legend, the Faust theme, and comparative forms of comedy and tragedy. Critiques of materials and conferences are a part of the course. One or two hours.

JOURNALISM COURSES

ART130 Photography I
A laboratory course in black and white photography in which the student receives instruction in the use of adjustable cameras and the developing and printing of photographs. Includes a study of great photographers and their influence on journalism and art. Student must provide an adjustable camera (preferably 35mm). Three hours.

ART260 Digital Photography
A laboratory course in which students will learn to use photography as a tool for media communication. Methods will be introduced for turning an ordinary photographic situation into a dramatic two-dimensional image. Techniques in using computer digital image editing will also be introduced. Prerequisite: ART130. Three hours.

COM113 Introduction to Mass Communication
A survey of mass media in society, including newspapers, magazines, books, radio, recordings, television, film, the internet, advertising, public relations, photojournalism, and communication theory. The course covers the history, economic controls, governmental controls, problems, effects, research, and societal importance of the information and entertainment media. Three hours.
COM423 Public Relations
A course designed to acquaint the student with steps for building good will between an organization and its many publics. Each student works with a local firm to develop and apply the concepts of public relations presented in the course. Three hours.

JOU161–163 Practical Journalism
Practical experience in journalism. Experience may involve work on the college newspaper, yearbook, or literary magazine. Course credit is determined by the advisor of the publication commensurate with the nature of the student’s involvement and responsibility. One to three hours, repeatable.

JOU214 Newspaper Journalism
Instruction and practice in writing for newspapers, including current news, features, sports, government, editorials, etc. Includes practical experience writing for the campus and local newspapers. Three hours.

JOU270 Design and Layout for Journalists
A laboratory, hands–on course in which students are exposed to InDesign and Adobe Photoshop while learning the most up-to-date principles of layout and design for newspapers, magazines, and other media. Three hours.

JOU313 Editing
Instruction and practice in the preparation of copy for publication, including copy editing, proofreading, style, headline writing, picture cropping, typography, legal considerations, and page layout and design for newspapers, magazines, and other media. Three hours.

JOU314 Writing for Publication
A magazine writing course involving the writing and marketing of free–lance articles to periodicals, particularly in the religious field. Publication of written articles is a goal of the course. Three hours.

JOU315 Advanced Newspaper Journalism
This course builds on the fundamentals of newspaper reporting learned in Newspaper Journalism to augment reporting and writing skills. Emphasis will be placed on developing critical thinking and research skills, as well as conforming to AP style. Non–traditional methods of reporting will also be examined. Prerequisite: JOU214. Three hours.

JOU391–393 Independent Study in Journalism
Topics or projects will be chosen and investigated in the areas of journalism in consultation with the individual instructor. Prerequisite: permission of the department chairman. One to three hours, non–repeatable.

JOU491–493 Journalism Internship
The well–qualified student further develops journalistic skills by placement in a professional environment on or off the campus. Close supervision and
evaluation monitored by the department are intrinsic parts of the program. One to three hours.

**JOU494 Journalism Senior Seminar**
A capstone course for seniors designed to integrate previous courses in the field. The course includes discussion of current issues and trends as well as ways Christian journalists respond to them. Three hours.

**FOREIGN LANGUAGE COURSES**

**FLC464 Methods of Teaching a Foreign Language**
A study of curriculum and methods of teaching a foreign language on both the elementary and secondary level, with special emphasis on performance objectives and methodology with classroom practice. Three hours.

**FLC490 Senior Seminar**
An exit course for seniors developed around languages and cultures. The purpose of this course is to provide a capstone course in order to allow students to reflect upon and apply what they have learned in previous language courses and to provide a bridge between their language study and their life calling. Students participate in community service and conduct a scholarly research throughout the semester on a topic relating to foreign language study. Three hours.

**CHI101–102 Beginning Chinese Language and Culture I and II**
This course is intended to be an intensive learning course for students without prior knowledge of Mandarin Chinese dialect or written Chinese. The emphasis is placed on Chinese Pinyin Romanization system, Chinese characters, the development of language skills in listening, speaking, reading and writing and cultural insight. Online laboratory work is required. Three hours each semester.

**FRE101–102 Beginning French Language and Culture I and II**
Students are put in the presence of authentic, unsimplified French and are trained to use it in the dynamic context of communication. The emphasis is placed on oral proficiency, the development of skills, self-expression and cultural insight. Online laboratory work is required. Three hours each semester.

**FRE201–202 Intermediate French Language and Culture I and II**
Continuation of language study advancing students toward comprehension, speaking, reading, and writing while gaining a deeper appreciation for the francophone culture, language, and people. Online laboratory work is required. Prerequisites: FRE101–102 or its equivalent. Three hours each semester.

**FRE205 French Conversation**
This is an advanced proficiency-based approach to oral skill development. Students speak the language in a range of contexts likely to be encountered in the francophone culture, carrying out a range of functions likely to be necessary in dealing with others in the francophone culture. Students are exposed to a repertoire of methods or techniques of speech in order to increase sociolinguistic competence. Two hours.

**FRE210 Advanced Communication and Civilization**
This course provides a link between basic language work done thus far and the increasingly diversified advanced work students will encounter overseas. The class focuses on underlying currents of the evolution of French culture. Students explore historical events and figures, cultural movements and trends that have shaped the French culture. This class is taught in French. Three hours.

**SPA101–102 Beginning Spanish Language and Culture I and II**
Students are put in the presence of authentic, unsimplified Spanish and are trained to use it in the dynamic context of communication. The emphasis is placed on oral proficiency, the development of skills, self-expression and cultural insight. Online laboratory work is required. Three hours each semester.

**SPA201–202 Intermediate Spanish Language and Culture I and II**
Continuation of language study advancing students toward comprehension, speaking, reading, and writing while gaining a deeper appreciation for the Spanish-speaking culture, language, and people. Online laboratory work is required. Prerequisites: SPA101–102 or its equivalent. Three hours each semester.

**SPA205 Spanish Conversation**
This course is an advanced proficiency-based approach to oral skill development. Students speak the language in a range of contexts likely to be encountered in the Spanish-speaking culture, carrying out a range of functions likely to be necessary in dealing with others in the Spanish-speaking culture. Students are exposed to a repertoire of methods or techniques of speech in order to increase sociolinguistic competence. Two hours.

**SPA210 Advanced Communication and Civilization**
This course provides a link between basic language work done thus far and the increasingly diversified advanced work students will encounter overseas. The class is designed to prepare students for the academic standards and teaching style in Latin countries. Students are exposed to a variety of genres in their readings, compositions and conversation, training them to analyze and synthesize their material and learning to become more articulate in the Spanish language. Three hours.
Overseas

The Study Abroad Program

For language majors and minors, Grace’s Study Abroad Program requires qualified students to study abroad their junior year. We believe immersion in the target culture and language is the greatest means of attaining proficiency. Through this cross-cultural experience, students learn to appreciate another part of the world. They are placed with a host family, participate in the life of a church and are enrolled in some of the world’s best-known universities, with whom Grace has transfer and credit agreements. By signing a language pledge, students commit to speak the target language throughout their experience and therefore attain near-native fluency by the end of the program.

With the help of the Study Abroad Coordinator, students select a program of studies covering a wide variety of areas and disciplines in the target language. Majors take a minimum of 28 hours and minors take a minimum of 12 hours at the following approved member universities:

- STA043 Université de Bourgogne – Dijon, France
- STA044 Sorbonne, Université Paris IV – Paris, France
- STA049 Word of Life – Argentina
- STA046 Universidad Antonio de Nebrija – Madrid, Spain
- STA040 Universidad de Belgrano – Buenos Aires, Argentina

Students register for 16–18 credit hours during a fall and spring semester and 12 credit hours during a summer term.

Students can participate in the following Council for Christian Colleges and Universities Programs for study in Chinese, Russian and Arabic.

- STA061 Russian Studies Program
- STA060 China Studies Program
- STA062 Middle East Program

They can also participate in a Christian Exchange Program for the study of German.

- STA048 AmbEx Christian Exchange Program, Amberg, Germany

The following are a representative of courses proposed throughout Grace College’s member institutions. All instruction is in the target language.

For further information regarding current member institutions and courses offered, please contact the Languages, Literature and Communication Department.
On Campus

For advanced students and those returning from overseas with the Grace Study Abroad Program, the following courses may be taken both fall and spring semesters in all languages.

381–386 Readings
One to four hours of credit may be obtained by readings in French and Spanish advanced literary texts from the Middle Ages to the present. One thousand pages are read in the foreign language for each credit. Readings must cover several areas including poetry, theatre, novels, and literary criticism. One to four hours.

391–394 Independent Study
Academic credit for overseas, intercultural bilingual work may be given in special cases. All work must include extensive bibliographic research, readings, on-site journals or reports, and a 10-page paper to be presented the semester after the international fieldwork. Registration for credits must also be done after the fieldwork has been completed. One to four hours.

451–452 Language Practicum
Supervised teaching of local school children or college students in languages offered on campus. One to two hours.

461–464 Area Studies
Advanced research on topics of historical, literary, or cultural interest. Reading in the foreign language and research papers are required. One to four hours.

471–472 Scholarly Translation
For the most advanced students with fluency in English and the foreign language, translation may be done on significant literary, critical, or historical texts, with the purpose of publication. One or two hours.

COMMUNICATION COURSES

COM110 Public Speaking in Society
A study of communication theory as applicable to public speaking. Students explore the components of an effective speech, as well as current applications of speaking skills. Emphasis will be placed on practicing and displaying these skills in a laboratory setting. Three hours, including lab.

COM113 Introduction to Mass Communication
A survey of mass media in society, including newspapers, magazines, radio, recording industry, television, film, internet, advertising, photojournalism, and communication theory. This course covers the history, economic controls,
governmental controls, problems, effects of research, and societal importance of the information and entertainment media. Three hours.

**COM202 Advanced Presentation Skills**
A continuation of COM110 with the development of a marked degree of skill in the preparation of material for various public settings. Prerequisite: COM110, or demonstration of competency and junior status. Three hours.

**COM203 Intercultural Communication**
A study of the principles and processes of communicating effectively with people from a second cultural context. The course focuses on functional perception and how cultural worldview, beliefs, and values upon the personal perception of each individual. The shaping of the message, style of communication, and communication networks for each cultural context are explored with a view to penetrating each culture as deeply as possible with the Gospel. The dangers of ethnocentrism and some current methods of contextualization are discussed. (Home Department–Biblical Studies. Register as ICS311.) Three hours.

**COM213 Interpersonal Communication**
An examination of the process of communication and interpersonal relationships focusing on the role of the self, people perception, the environment, and the interaction of interpersonal orientations. Personal skills in resolving conflict and stimulating friendships are examined through exposure to theory, practical exercises, and the analysis of experiences in current relationships. Three hours.

**COM216 Small Group Communication**
An examination of the theory, processes, and applications of small group communication. Specific topics of consideration include leadership, roles, norms, decision making, problem solving, group cohesiveness, management of member participation and conflict management. Three hours.

**COM217 Communication Ethics and Theories**
This course explores moral reasoning and practice in the communication field as well as the major theoretical approaches to communication. Case studies will be used to examine truth telling, business pressures, deception, fairness, privacy, social justice, and the relationship between ethics, theories and practice. Applications in advertising, the entertainment industry, politics, and the church. Three hours.

**COM303 Persuasion**
An overview of the sources, formats, and features of persuasion. Students analyze persuasion in political, religious, advertising, and everyday rhetorical settings. They also examine the nature of effective and ineffective persuasion.
Students will make persuasive presentations. Prerequisite: COM110. Three hours.

COM311–313 Stagecraft
A practicum in play production with related projects in scene design, set construction, costume design and construction, make-up application, sound and lighting, and house management. By consent of department only. One to three hours each semester.

COM321 Introduction to Theatre
An overview of the field of theatre including history, an introduction to dramatic types, the analysis of scripts, design and directing. Three hours.

COM323 Oral Interpretation
The study of theoretical criteria employed in the selection and adaptation of literature. The course stresses practical training in the oral reading of prose, poetry, and drama. Prerequisite: COM110. Three hours.

COM325 Fundamentals of Acting
An introduction to acting theory and practice. Practical application of performance techniques and character development is given special emphasis. Prerequisite: COM321. Three hours.

COM327 Introduction to Cinema
A careful look at film as an art form. Students will spend the bulk of their time viewing “significant” films and analyzing what they say and how they say it. Some consideration is given to film technique, but not to the details of filmmaking and film history. Three hours.

COM329 C.S. Lewis–Persuader
A survey of the works of C.S. Lewis which examines his apologetical, rhetorical, and literary powers. Attention is given to Lewis the fantasist, the science fiction prophet, and the theological storyteller. Three hours.

COM330 Film, Faith, and Popular Culture
This course examines the state of contemporary culture as mirrored in film and raises questions about the connection that exists between film and faith. Issues of particular concern are film views of race, gender, and violence. Three hours.

COM346 Organizational Communication and Behavior
A survey of various applications of communication theory to business and organizational life. Special emphasis is given to small groups, interviewing skills, and persuasive proposals. Prerequisite: COM110. Three hours.

COM414 Argumentation and Debate
An examination of the logical structure and function of argument in oral and written discourse with special attention given to fallacies and test of evidence.
Students will engage in two-person and four-person classroom debates. Prerequisite: COM110. Three hours.

**COM423 Public Relations Principles**
An introduction to the theory and practice of public relations, emphasizing its publics, management function, writing skills, communication processes, tools, and professional ethics. Three hours.

**COM424 Public Relations and Advertising Writing**
Designed to give students an orientation to and practice in the principles, techniques, formats, and skills necessary to be a writer in these exciting fields. Students will develop specific pieces such as press releases, internal memos, fact sheets, and public service announcements, commercials and promotions for print, electronic media and the Web. Three hours.

**COM425 Directing**
Theoretical and practical training in play direction with emphasis on selecting plays, conducting rehearsals, and working with actors. Prerequisite: COM321 or permission of department. Three hours.

**COM426 Religious Drama Workshop**
A practicum in the writing, performance, production, and direction of dramatic works with religious emphasis. Three hours.

**COM433 Media Production**
Introductory training for audio and video production. Three hours.

**COM471–473 Communication Seminar**
An advanced seminar or individual project for communication majors. By consent of department only. One to three hours per semester, with a total of five hours possible. However, each section is non-repeatable.

**COM491–493 Communication Internship**
An independent, communication related internship monitored by a department faculty member and by an on-site supervisor. The student may spend from 20 to 50 on-site hours per course hour through the course of the semester at the job site. Some internships are paid positions. Internships must be arranged through department faculty. One to three hours.
History and Political Science Department

Faculty:
Mark M. Norris, Ph.D.
Chair
Jared Burkholder, Ph.D.

Part-time Faculty:
John Snyder, M.Ed.
Our Purpose

Our purpose is seen in our motto: *Memores acti prudentes potest*, meaning: “Mindful of what has been done, aware of what is possible.” We encourage our students through the departmental common experience, through electives in their disciplines, by engaging in applied learning, and by participating in a capstone experience to think incarnationally. As apprentice scholars, they are not to rush to judgment, but are to understand other cultures. They are also to be ready to engage in the type of social responsibility befitting a citizen of Christ’s Kingdom. In this way, their time in our department is to be a transformational experience that prepares them for a life of service in an engaging profession.

Goals of the Department

We have six goals that we assess:

1. Students will acquire the theoretical foundations, practical knowledge, and tools that will serve them well in their chosen discipline, whether it be history, political science, law, or social studies education.
2. Students who graduate with a major from our department will successfully transition into the next step of their professional journey.
3. Students will perform strongly on the appropriate standardized exams for their discipline.
4. Students will examine the past, the science of politics, place, and/or legal advocacy as critical thinkers.
5. Students will be challenged to integrate their Christian faith with their chosen discipline.
6. Students will understand the influences and importance of global issues within the contemporary world.

Preparation for employment in varied professions

A major in history will prepare students for a number of professions and/or graduate work in museums, archives, teaching at the collegiate or secondary level, historic preservation, public history, journalism, government service, law, business administration and management, business research, and ministries such as North American and foreign missions. The pre-law program is designed to help transition students to law school where they can prepare for a future career in advocacy. Careers in political science include: political scientists, legislators, legal investigators, lawyers, law librarians, judges/judicial workers, judiciary interpreters and translators, public affairs specialists, labor relations manager, and management analyst. The social studies education major is approved by the Indiana Professional Standards Board, and the School of
Education is accredited by both the National Council for Accreditation (NCATE) and the Association for Christian Schools International (ACSI). Social studies will prepare students for many of the same careers as the history major and will also enable them to teach economic, geography, US and world history, political science, psychology, and/or sociology at the high school level once they are certified.

**Grace Core Requirement**
History is also a strong component of the Grace Core (general education) curriculum. The preferred Grace Core course is HIS 138 Contemporary America and the World, though any history course in the department will meet the general education requirement.

**Study Abroad**
Students are encouraged to spend at least one semester in an approved college or university in a foreign country. They may take up to 18 credits while abroad and up to 12 of these may be used towards the major and/or 6 of these towards the minor. Political science majors are especially encouraged to participate in the Washington Internship Institute where they may gain a semester of credits and intern on Capitol Hill. See [www.wiidc.org/d/](http://www.wiidc.org/d/)

Students interested in the ancient world, the Middle East, or in Biblical history are encouraged to apply to Jerusalem University College for relevant course work. See [www.juc.edu](http://www.juc.edu)

**Departmental Common Experience**
The departmental common experience is an integrated set of courses shared by our majors and minors. This consists of the following three credit courses:
- HIS 114 World History and the Historical Method I
- HIS 116 World History and the Historical Method II
- GEO 101 World Geography
- HIS 205 American Journeys
- POS 220 American Government

The majors take all 15 credits and the minors take 9 credits from this list.

**History Major**
In our history major, “Students are encouraged to study human communities as they have changed over time and to appreciate history as the stream of time in which we all live. Both fallen humanity and God’s gracious act of reconciliation are evident within this stream.” (Grace College Educational Value # 6)
To this end, the department offers a wide range of course offerings in history including: American, European, world, and public history.

The requirements for a major in history are 39 semester hours in the department, completion of the Grace Core, and a minor or additional credits to total at least 123 hours.

In addition to the departmental common experience, students are to take 21 hours of electives (7 courses) of HIS courses divided between American, European, World, or Public history. History students may also take POS 201 as an elective. Finally, students must take the course HIS 496 Capstone Seminar, in which they will write a senior thesis. This must be taken by the fall of their senior year at the latest.

It is recommended that all history majors complete the bachelor of arts degree.
Political Science Major

The requirements for a major in political science are 39 semester hours in the department, completion of the Grace Core, and a minor or additional credits to total at least 123 credit hours.

In addition to the departmental common experience, students are to take 21 hours of electives (7 courses, this may include BUS 221) of POS courses. Finally, students must take the course POS 496 Capstone Seminar, in which they will write a senior thesis, by the fall of their senior year at the latest.

It is recommended that all political science majors complete the bachelor of science degree and take statistics as part of their general education.

Social Studies, Secondary Education Major

The requirements for a secondary education teaching major in social studies bachelor of science degree include, (in addition to the Grace Core) 42 major hours and 40 professional education hours, for a minimum of 130 credits hours. For their general education options, students are to take PSY120 Essentials of Behavioral Science, BUS300 Personal Finance, HIS138 Contemporary America and the World, and SCI223 Physical Geography.

The major hours include 15 credits in the departmental common experience. The social studies concentration is 27 credits. This includes historical perspectives, citizenship, and American Government in which students take: 6 credits of upper level European/World history courses, 6 credits of US upper level history courses, and HIS138 Contemporary America and the World (part of the Grace Core). This also includes POS201 Introduction to Political Thought and POS301 State and Local Government. Students are then to choose one more area from the following:

**Economics** – 9 credits
- BUS221– Macroeconomics,
- BUS222 Microeconomics,
- FIN317 Money and Banking

**Geography** – GEO330 Geography of North America, plus 6 credits from:
- GEO380 – History and Geography of Africa
- GEO385 Geography & History of Asia: China, India, & Japan
- GEO390 Latin America and the Atlantic World
- GEO395 Islam, Politics, and the Middle East
- SCI223 Physical Geography

**Psychology** – PSY 110 Introduction to Psychology plus 6 credits from:
- PSY210 Introduction to Counseling,
- PSY217 Abnormal Psychology
Pre-law Program

There are a number of vital components in the pre-law program that make it competitive.

1. A variety of majors to choose from – The pre-law program allows students to choose virtually any major including those generally preferred by many law schools and the American Bar Association: history, political science, communication, English, business, criminal justice, psychology, information technology, math, biology, and Spanish. The ABA and most law schools do not recommend that pre-law students take a pre-law major: therefore, we do not offer one at Grace.

2. A Pre-law Minor—Students must complete 21 semester hours. This must include 9 hours in the departmental common experience, specifically:
   - HIS116 World History and Historical Method II,
   - HIS205 American Journeys,
   - POS220 Introduction to American Government.
Students take 9 hours in the pre-law concentration from the following:
   - ACC211 Principles of Accounting
   - BUS221 Macroeconomics
   - COM303 Persuasion
   - COM414 Argumentation and Debate
   - HIS376 Britain and the World
   - LAW312 Logic
   - LAW313 Business Law I
   - LAW314 Business Law II
   - LAW410 Criminal Law
   - MAT 320 Probability and Statistics
   - POS 201 Introduction to Political Thought
   - POS 301 State and Local Government
   - POS 310 International Relations
   and any ethics course. In addition, they must also take LAW 497. Elective courses may not be used to meet requirements in another major or minor. This minor ensures that students are following the recommendations of law schools which suggest that students be exposed to a broad range of challenging liberal arts courses. Students must maintain a GPA of at least 2.8 in this minor.
3. An Internship—Students are highly encouraged to complete a pre-law internship or practicum either through their major department or through the History and Political Science Department. This counts towards the electives.

4. Pre-law advisor—In addition to their major advisor, students are assigned a pre-law advisor from this department.

**Geography Minor**

The requirement for a minor in geography is 21 semester hours in the department. This must include 9 hours from the departmental common experience and 12 GEO credits (including SCI 223).

**History Minor**

The requirement for a minor in history is 21 semester hours in the department. This must include 9 hours from the departmental common experience and 12 hours of HIS electives divided between American, European, World, or Public History.

**Political Science Minor**

The requirement for a minor in political science is 21 semester hours in the department. This must include 9 hours from the departmental common experience and 12 hours of POS electives.

**Public History Minor**

The requirement for a minor in public history is 21 semester hours in the department. This must include 9 hours from the departmental common experience and 12 hours of the following: HIS 400, HIS 402, and HIS 495 (6 credits).

**Dual majors and minors:**

Dual majoring is attractive in our department because of the departmental common experience and because of the nature of the social studies degree. Students may dual major in history and political science for only 24 more credits than they would have with a single major in the department. This may still be completed in four years. They may pick up a minor in the department for only 12 more credits. Social studies students may dual major in history with the completion of HIS 499 and one more upper level HIS course. Because social studies contains political science, geography, economics, and behavioral science as well, students may obtain a minor or another major in these areas.
with some advanced standing. However, social studies students taking course work outside of the major may need to go beyond the traditional four years of education.
COURSE DESCRIPTIONS

Geography

GEO 101 World Geography
The cultural and physical elements of human habitats; the significance of the elements of the earth to humans, and the use of maps and their importance. Three hours.

GEO 330 Geography of North America
This course is designed to give students an appreciation of the North American continent, within the context of social, physical, and historical geography. This includes a module on Indiana geography and history. Three credits.

GEO 372 Europe in the Age of Modernity
A study of European culture, society, and politics from the rise of science into the twenty-first century. Students will investigate the growth of modern nation-states, absolute monarchs, constitutional governments, the Enlightenment, empire and the fall of empire, and the great wars of the twentieth century. Students will also study great themes such as political revolutions and reforms, the effects of industrialization and urbanization, changing class structures, family and gender relations, and the importance of religion in an age of modernity. The concept of Europe in the age of post-modernity will also be discussed. (Cross-listed, register as HIS 372.) Three Hours.

GEO 380 Geography and History of Africa
This is a course designed to give students an appreciation of the African continent. Discussion will center on understanding the context of the physical, cultural, political, and historical geography of its peoples. Three hours.

GEO 385 The Geography and History of Asia: China, India, and Japan
This is a course designed to give students an appreciation of Asia -- specifically, China, India, and Japan. Discussion will center on understanding the context of the physical, cultural, political, and historical geography of its peoples. Students will also discuss and analyze the growing importance of Asia to the global economy. Three hours.

GEO 390 Latin America and the Atlantic World
This course is an introduction to the cultural, political and geographical history of Latin America and the impact of Spanish and Portuguese colonization. As such, it examines the culture and history of Central and South America and to a lesser extent, the Caribbean. It examines the region’s indigenous civilizations, society under colonial rule, independence movements and Latin America’s role in political events during the modern era. The course will have a special focus
on Mexico and may be integrated with an on-site J-term study tour to Mexico City and the surrounding region. Three hours.

**GEO 395 Islam, Politics, and the Middle East**
This course examines the religious origins, political development, and geographic expansion of the Islamic World and its relationship to western society. It addresses the relationship between Islam, Judaism and Christianity, examines the Crusades, the Palestinian–Israeli Conflict as well as recent political tensions between the United States and the Middle East since the 1970s. It also examines perceptions of Islam as well as the rise of Islamic fundamentalism and Jihadist movements. (Cross-listed, Register as POS395.) Three Hours.

**GEO 440 Selected Topics in Geography**
This is a directed program of reading and discussion concerning specifically selected topics in Geography. This may involve field work.

**History**

**HIS 114 World History and the Historical Method I**
This global history course will examine important developments in the civilizations of Europe, Asia, Africa, and the Western Hemisphere from pre-history to the beginning of the development of world trade in the 16th century. Themes investigated will include: Politics and government, art and ideas, religion and philosophy, family and society, science and technology, earth and the environment, and interaction and exchange. An emphasis will be placed on showing how these meta-themes are manifested in cultures throughout the world. This course will also serve as an introduction to research methods in the field. Three hours.

**HIS 116 World History and the Historical Method II**
This global history course will examine important developments in the civilizations of Europe, Asia, Africa, and the Western Hemisphere from the development of world trade in the 16th century to the rise of globalism in the 21st century. Themes to be investigated will include: Politics and government, art and ideas, religion and philosophy, family and society, science and technology, earth and the environment, and interaction and exchange. An emphasis will be placed on showing how these meta-themes are manifested in cultures throughout the world. This course will also serve as an introduction to research methods in the field. Three hours.

**HIS 138 Contemporary America and the World**
This course is a topical approach to the history of the United States from the Cold War to the present with special emphasis on America’s role in global affairs. Students will not only gain a broad understanding of America’s place in recent world events but also a specialized knowledge of various topics related
to issues of culture, politics, and conflict as well as current events and trends. This is the department’s main general education course. Three hours.

**HIS 205 American Journeys**
In this topical survey of the history of the United States to the end of World War II, students will be introduced to the major issues, broad developments, and perennial questions that cut to the heart of American identity. The course will cover such topics as the ideological origins of the American nation, the historical relationship between state and national sovereignty, race and slavery, sectional tensions and the Civil War, social and religious movements, and the culture wars that continue to impact American society today. Three hours.

**HIS 318 Methods of Teaching Secondary Social Studies**
This course is a study of practical methods and materials in the broad areas of social studies education. Students will learn many classroom techniques and thus create a repertoire of methods appropriate for the secondary levels of education. Prerequisite: Admission to the Teacher Education program. See the School of Education office for details. Three hours.

**HIS 328 Colonial and Revolutionary America**
Colonial and Revolutionary America
In this upper-level course, students will be introduced to European colonization, especially within North America, including the social, economic, cultural and political development of the Atlantic System. It also examines the divisions in colonial society, the causes, context and progress of the American Revolution, as well as the unifying features of American patriotism. Topics also include indigenous civilization, New England society, diversity in the Mid-Atlantic region, Christian missions, and the Atlantic slave trade. The course will conclude by focusing on the construction of the American political system along with the limits of democracy. Three hours.

**HIS 335 The Era of the American Civil War**
This covers the period of 1848 to 1877 and examines the causes, nature, and consequences of the American Civil War. Topics to discuss will include the nature of slavery, the rise of abolitionism, the collapse and reconstruction of the American political system, and the causes and effects of the Civil War on American society. Three hours.

**HIS 337 The Progressive Era to the Atomic Age**
This course begins with the world’s first populist movement and continues to the end of the Second World War. Students will see how a rural and agrarian United States was transformed into an urban industrial world power. Three hours.
HIS 339 Religion in American History
From major world religions to a host of small religious movements, the variety of religious expression in America is almost endless. Indeed, religious pluralism and diversity has become one of the defining features of American society. Naturally, this diverse religious landscape has not taken shape over night. Rather, it has developed over centuries and has included a complex spectrum of theological approaches, ethical positions, charismatic men and women, ordinary citizens and even political involvement. This course is meant to provide students with an introduction to the religious diversity in America while emphasizing its historical context and development. Three hours.

HIS 359 Ancient History
A survey of the history of the ancient roots of civilizations beginning c. 3000 B.C. at the river valleys of Mesopotamia and Egypt and ending at the fall of the Western Roman Empire, 476 A.D. The remarkable contributions of the ancient civilizations of the Near East, the Greek city-states, China, India, Sub-Saharan Africa, Meso-America, and of the Roman Empire will be discussed. Three hours.

HIS 360 Medieval Europe
This course is a study of the political, economic, and intellectual evolution of European civilization from the decline of the Roman Empire to the 14th century. Three hours.

HIS 366 Renaissance and Reformation
This is a study of the era of transition from the Later Middle Ages to the rise of science in the early modern era, c. 1300–c. 1650. Major themes include the Italian and Northern Renaissances; the Continental, English, and Catholic Reformations; and religious wars such as the Thirty Years’ War. Special attention will be given to the relationship between social change and shifts in European intellectual life and spirituality. This fulfills the history component of the social science liberal arts requirement. Three hours.

HIS 372 Europe in the Age of Modernity
A study of European culture, society, and politics from the rise of science into the twenty-first century. Students will investigate the growth of modern nation-states, absolute monarchs, constitutional governments, the Enlightenment, empire and the fall of empire, and the great wars of the twentieth century. Students will also study great themes such as political revolutions and reforms, the effects of industrialization and urbanization, changing class structures, family and gender relations, and the importance of religion in an age of modernity. The concept of Europe in the age of post-modernity will also be discussed. Three Hours.

HIS 376 Britain and the World, Honors
This honors course is an investigation of modern Britain and its global influence from c. 1485 to the present. Classes will be in a seminar format that
encourages discussions of important primary and secondary source materials and relevant themes. Themes to be discussed will include the rise of constitutional monarchy, the growth of the common law, the rise and decline of Protestantism, the influence of social reform movements, the growth and consequences of empire, the various cultures within Great Britain, and the Anglo-American influence in the world in the 21st century. Students will create and design the student presentations section of the course. Prerequisites: Honors status, a declared history/social studies major, or history/pre-law minor. Three hours.

**HIS 380 Geography and History of Africa**
This is a course designed to give students an appreciation of the African continent. Discussion will center on understanding the context of the physical, cultural, political, and historical geography of its peoples. (Cross-listed, register as GEO 380) Three hours.

**HIS 385 Geography and History of Asia: China, India, & Japan**
This is a course designed to give students an appreciation of Asia -- specifically, China, India, and Japan. Discussion will center on understanding the context of the physical, cultural, political, and historical geography of its peoples. Students will also discuss and analyze the growing importance of Asia to the global economy. (Cross-listed, register as GEO 385.) Three hours.

**HIS 390 Latin America and the Atlantic World**
This course examines the religious origins, political development, and geographic expansion of the Islamic World and its relationship to western society. It addresses the relationship between Islam, Judaism and Christianity, examines the Crusades, the Palestinian–Israeli Conflict as well as recent political tensions between the United States and the Middle East since the 1970s. It also examines perceptions of Islam as well as the rise of Islamic fundamentalism and Jihadist movements. (Cross-listed, Register as POS395.) Three Hours.

**HIS 395 Islam, Politics, and the Middle East**
This course examines the religious origins, political development, and geographic expansion of the Islamic World and its relationship to western society. It addresses the relationship between Islam, Judaism and Christianity, examines the Crusades, the Palestinian–Israeli Conflict as well as recent political tensions between the United States and the Middle East since the 1970s. It also examines perceptions of Islam as well as the rise of Islamic fundamentalism and Jihadist movements. (Cross-listed, Register as POS395.) Three Hours.

**HIS 400 Public History**
This is a study of how the past is presented in the public sphere, including archives, museums, national and state parks, documentaries, and community
histories. This is specifically focused on students who desire careers in any one of a number of diverse areas outside of academia. Students will receive on site instruction in libraries and museums. Students from all majors are invited to enroll. Prerequisites: at least sophomore standing. Three hours.

**HIS 402 Archival Preservations**

This course examines the causes of physical deterioration of historical artifacts and the relevant methods and theories of preserving archival materials for future generations. It examines the process of organizing archival collections; the proper care, preservation and repair of books, documents, textiles, film and photography; disaster preparedness and facilities maintenance. This course complements the training students receive in HIS 400 and is designed for those interested in public history and/or a career in an archival facility. Three hours.

**HIS 440 Selected Topics in History**

This applied course includes direction in research and will normally involve a field-trip experience. Topics covered include: Brethren History, Family History, The India of Gandhi, Return to the Roots of the Civil Rights, Mexico, Scotland, Tudor England, Wild, Wild West. Three hours.

**HIS 495 History Internship**

Students are to observe and to participate in the activities of an organization that promotes professional development. Students may choose from a wide range of organizations including museums, libraries, archives, or state and national parks. Credit is awarded based upon the intensity and length of involvement and also upon the number of learning objectives accomplished. Students are to meet in a seminar format once a month with an instructor for encouragement and personal development and assessment. Three to six hours.

**HIS 496 Capstone Seminar**

This is a capstone course that will allow students to conduct historical research, culminating in a senior thesis, and to make a public presentation of their findings. Students will meet at least once a week in a seminar format with the instructor. Prerequisites: A declared history major, junior or senior standing, and at least 20 hours of history, or by approval of the instructor. Three hours.

**Law**

**LAW 312 Logic**

This course is an introduction to the art and skill of critical thinking and reasoning. This includes understanding the logic of real arguments in natural language, identifying common mistakes in reasoning, distinguishing between good and bad arguments, and developing effective reasoning strategies. It addresses critical thinking skills and dispositions; formal and informal fallacies; analyzing types of discourse and the function of language in arguments;
identifying the structure of arguments; the nature of inductive, deductive, and abductive arguments; evaluating and mapping extended and complex arguments. This will be excellent preparation for standardized tests such as the LSAT.

LAW 313 Business Law I
Basic legal principles which control modern business transactions. Deals with such topics as contracts, agencies, employment, negotiable instruments, property, sales, and business relations with government. (Home department - BUS. Register as BUS313.) Three hours.

LAW 314 Business Law II
An expansion of the legal principles introduced in BUS313. Prerequisite: BUS313. (Home department BUS. - Register as BUS314.) Three hours.

LAW 410 Criminal Law
The study of substantive criminal law as a means of defining social values. Attention is given to the definition and classification of crime, as well as criminal law theory and the relationship of criminal law to the criminal justice system. (Home department SOC. - Register as SOC410.) Three hours.

LAW 496 Capstone Seminar
This is a capstone course that will introduce students to the legal profession and will prepare them for the law school experience. Students will be given exposure to the LSAT and will be given help in preparing applications to the law schools of their choice. In addition, they will be introduced to the type of legal thought and writing that will be necessary to understand in order to be successful in law school. Three hours.

LAW 498 Pre-law Internship
Students are to observe, study, and participate in various areas of the legal profession. This will involve job shadowing private or public attorneys and prosecutors, spending time in court rooms observing criminal proceedings, and/or interning with public officials. Students are to submit a journal of their experiences and to report their findings orally. Three hours.

Political Science

POS 201 Introduction to Political Thought
This course includes several approaches to political philosophy. First, it provides a general overview of the dominant political ideologies from the ancient to the contemporary world. Second, it provides a general survey of some of the most influential political thinkers whose writings and theories have given rise to the modern political landscape. This will focus heavily on the development of western political thought but may include selections from
Islamic civilization, southeast Asia, or other non-western contexts. Third, this course will include an introduction to more recent thinkers, or even popular personalities, whose work is relevant to the intersection of faith and politics. Three hours.

**POS 220 Introduction to American Government**
This introduces students to how the political system in America functions. It focuses on the actual workings of the American government and starts with the cultural and constitutional contexts of American politics. Three hours.

**POS 234 Introduction to Criminal Justice**
This course introduces students to the essentials of criminal justice and the most significant issues in today’s American criminal justice system. Students will learn the true roles of the police, courts, and corrections and develop an understanding of the complex ways in which they work together. Information on criminal justice careers will help students learn about the meaning of criminal justice to those who work in the field and will provide useful information that can aid career choices. (Home department – SOC. Register as SOC234) Three hours.

**POS 301 State and Local Government**
This is an examination of the structure and interplay between state, county, and local governments. Issues such as social security, zoning, welfare, public health, and the environment will be examined from the point of view of how they originate at the local levels yet how they exist and grow within federal guidelines. Three hours.

**POS 310 International Relations**
This is an investigation into the principles and concepts which govern the relationship of the United States with the nations of the global community. Three hours.

**POS 339 Religion in American History**
From major world religions to a host of small religious movements, the variety of religious expression in America is almost endless. Indeed, religious pluralism and diversity has become one of the defining features of American society. Naturally, this diverse religious landscape has not taken shape over night. Rather, it has developed over centuries and has included a complex spectrum of theological approaches, ethical positions, charismatic men and women, ordinary citizens and even political involvement. This course is meant to provide students with an introduction to the religious diversity in America while emphasizing its historical context and development. (Cross listed – Register as HIS339.) Three hours.

**POS 395 Islam, Politics, and the Middle East**
This course examines the religious origins, political development, and geographic expansion of the Islamic World and its relationship to western society. It addresses the relationship between Islam, Judaism and Christianity, examines the Crusades, the Palestinian-Israeli Conflict as well as recent political tensions between the United States and the Middle East since the 1970s. It also examines perceptions of Islam as well as the rise of Islamic fundamentalism and Jihadist movements. Three Hours.

**POS 440 Selected Topics in Political Science.**
This is a directed program of reading and discussion concerning specifically selected topics in political science. This may involve a field trip experience. Three hours.

**POS 495 Political Science Internship**
Students are to observe and to participate in the activities of an organization that promotes professional development. Students may choose from a wide range of activities involving work with political organizations or specific politicians. Credit is awarded based upon the intensity and length of involvement and also upon the number of learning objectives accomplished. Students are to meet in a seminar format once a month with an instructor for encouragement and personal development and assessment. Three to six hours.

**POS 496 Capstone Seminar**
This is a capstone course that will allow student to engage in an extensive research project in their discipline, culminating in a senior thesis. Time will also be spent in preparing students for graduate school and/or the profession. Prerequisites: At least 20 hours in the department or by approval of the instructor. (Cross-listed – Register as HIS 496.) Three hours.
Science and Mathematics Department

Faculty:
Donald B. DeYoung, Ph.D.
Chair

Nathan S. Bosch, Ph.D.
Kosciusko County Lakes and Streams Director
Environmental Biology Program Director

Richard E. Jeffreys, Ph.D.
Biology & Health Professions Program Director

Richard A. Dilling, Ph.D.
Marcia Lee, D.V.M.
Richard Roberts, Ph.D.
The Science and Mathematics Department offers coursework and programs in the biological, mathematical, and physical sciences.

The following majors and minors are offered.

**Majors**
- Biology (B.A. or B.S.)
- Environmental Biology (B.S.)
- Life Science Education (B.S.)
- Mathematics (B.S. or B.S.)
- Mathematics Education—Secondary (B.A. or B.S.)

**Minors**
- Biology
- Chemistry
- Environmental Biology
- Mathematics

The Science and Mathematics department offers learning experiences and competency in the areas of the life sciences, physical sciences, and mathematics. Department majors are equipped for service in current scientific fields and encouraged to cultivate a commitment to stewardship of God’s creation.

**Strengths within the Science and Mathematics Department**

**Pre-professional preparation**
The Biology program has considerable strength in biology and chemistry to prepare students for post-baccalaureate studies in science and medicine. This program includes pre-medicine, pre-dentistry, pre-pharmacy, pre-physical therapy, pre-physician assistant, and pre-veterinary medicine.

**Environmental Biology**
The Environmental Biology program at Grace is committed to equipping future professionals in environmental fields with the skills, competence, experience, and stewardship ethic to excel in caring for God’s creation. This program has been designed to emphasize hands-on, field-based learning in addition to classroom instruction.

**Life Science Education**
The life science education major is designed for students who desire to teach science, particularly biology, at the high school level. This program prepares students in the mainstream areas of modern life science in preparation for a career in either public or private schools.
Mathematics Education
The mathematics education major provides preparation for careers in high school and middle school mathematics teaching. The program begins with a series of required courses, after which students take electives depending on personal interests.

Mathematics
The mathematics major equips students for technology, actuarial science, and graduate studies.

BIOLOGY PROGRAM
Biology is the study of the science of living organisms from the smallest bacterium to the largest of the great whales. The mission of the biology program at Grace College is to study and teach biology as a science from the perspective of individuals who believe that all life and life processes are a result of God’s creation. We believe that the details of biological structure and function from the molecular to the grand anatomical level support the grand design of God the Creator. The key words of strengthening character, developing competence and preparing for service from the mission statement of Grace College drive the mission of the biology program. While the curriculum for the biology major is designed to give the student a strong background in the traditional areas of biology, there is an increased emphasis on molecular aspects since modern biology involves extensive study of the molecular and cellular level.

There are currently four degrees offered within the biology program: the Bachelor of Arts and Bachelor of Science in Biology and the Bachelor of Arts and the Bachelor of Science in Life Science Education. There is also a minor in biology for those students in other majors desiring biology to accompany their chosen major. Biology majors are required to minor in chemistry and to take supporting physics and math courses. The biology major is designed for the pre-professional preparation of students preparing credentials for admission into professional programs of dentistry, medicine, optometry, pharmacy, physician assistant, physical therapy and veterinary medicine. It is also designed for students desiring graduate work in many areas of biology including anatomy, biochemistry, botany, genetics, microbiology, physiology, zoology but excluding ecology and environmental biology which has its own program of preparation at Grace. Since a few professional programs may have an option of less than four years for the pre-professional preparation, students should meet with the health professions advisor as early as possible in their studies at Grace to increase the probability of effective and accurate course selection.
MAJORS AND MINORS IN THE BIOLOGY PROGRAM

BIOLOGY

Bachelor of Science

The requirements for Bachelor of Science in Biology is 44 hours in biology or designated biology related courses, a minor in chemistry, a year of physics and a supporting math course beyond the liberal arts requirement. The following courses are required for the major:

- BSC101 General Biology I
- BSC105 General Biology I Lab
- BSC102 General Biology II
- BSC106 General Biology II Lab
- BSC221 Plant Biology
- BSC223 Plant Biology Lab
- BSC222 Animal Biology
- BSC224 Animal Biology Lab
- BSC265 Cellular & Molecular Biology
- BSC321 Anatomy & Physiology I
- BSC322 Anatomy & Physiology I Lab
- BSC323 Anatomy & Physiology II
- BSC324 Anatomy & Physiology II Lab
- BSC353 Microbiology
- BSC354 Microbiology Lab
- BSC402 Senior Seminar
- BSC414 Genetics
- ENB211 General Ecology
- ENB212 General Ecology Lab

Plus three–four hours of biology electives.

CHEMISTRY MINOR (which is required to support the biology major)

- CHM111 General Chemistry I
- CHM113 General Chemistry I Lab
- CHM112 General Chemistry II
- CHM114 General Chemistry II Lab
- CHM211 Organic Chemistry I
- CHM213 Organic Chemistry I Lab
- CHM212 Organic Chemistry II
- CHM214 Organic Chemistry II Lab
- BSC245 Biochemistry

Additional supporting courses required for the major include:

- PHY201 Physics I
- PHY203 Physics I Lab
- PHY202 Physics II
- PHY204 Physics II Lab
Plus three hours of math beyond the three hours counted towards the liberal arts requirement.

**Bachelor Of Arts**
The requirements for the B.A. degree in biology are the same as those of the B.S. degree except that the three hour biology elective required for the B.S. degree is replaced by three to six hours of modern foreign language at level 200.

**LIFE SCIENCE EDUCATION**
**Bachelor of Science**
The major in Life Science Education is designed for students desiring to teach biology at the secondary level.

The requirements for Bachelor of Science in Life Science Education requires a minimum of 58 hours in the sciences including a minimum of 32 hours of designated biology courses and four hours of general ecology. The major also requires a minimum of 40 hours of designated professional education courses. Students desiring this major must register their intent with the School of Education preferably their first year of study at Grace to ensure that they receive the most recent communications from the School of Education in this ever changing discipline.

The following science courses are required:
- BSC101 General Biology I
- BSC105 General Biology I Lab
- BSC221 Plant Biology
- BSC223 Plant Biology Lab
- BSC222 Animal Biology
- BSC224 Animal Biology Lab
- BSC245 Biochemistry
- BSC265 Cellular & Molecular Biology
- BSC321 Anatomy & Physiology I
- BSC322 Anatomy & Physiology I Lab
- BSC323 Anatomy & Physiology II
- BSC324 Anatomy & Physiology II Lab
- BSC414 Genetics
- ENB 211 General Ecology
- ENB 212 General Ecology Lab

Three–four hours of biology elective.
- CHM111 General Chemistry I
- CHM113 General Chemistry I Lab
- CHM112 General Chemistry II
- CHM114 General Chemistry II Lab
CHM211 Organic Chemistry I  
CHM213 Organic Chemistry I Lab  
PHY201 General Physics I  
PHY203 General Physics I Lab  
SCI224 Physical Geology  
SCI236 Introduction to Astronomy  

While not required, it is recommended that additional math beyond the liberal arts elective be taken.  

**Professional Education Requirements:**  
EDU110 Foundations of Education  
EDU235 Instructional Methods & Materials  
EDU240 Educational Psychology  
EDU244 Exceptional Learners  
EDU254 Diversity in the Classroom  
EDU265 Computer Applications in Education  
EDU311 Classroom Management  
EDU332 Professionalism in Teaching  
EDU333 Classroom Assessment  
EDU430 Philosophy of Education  
EDU471-5 Student Teaching  
EDU495 Senior Seminar  
SCI464 Methods of Teaching Secondary Science.  

**Biology Minor**  
The requirement for a minor in biology is 33 hours in science including:  
BSC101 General Biology I  
BSC105 General Biology I Lab  
BSC102 General Biology II  
BSC106 General Biology II Lab  
BSC221 Plant Biology  
BSC223 Plant Biology Lab  
BSC222 Animal Biology  
BSC224 Animal Biology Lab  
BSC245 Biochemistry  
ENB 211 General Ecology  
ENB 212 General Ecology Lab  
Plus two hours of biology elective, and eight hours in general chemistry.  

**ENVIRONMENTAL BIOLOGY PROGRAM**  
The Environmental Biology program at Grace is committed to equipping future professionals in environmental fields with the skills, competence, experience,
and stewardship ethic to excel in caring for God’s creation. Requirements for the Environmental Biology major as well as individual courses have been designed to emphasize hands–on, field–based learning in addition to classroom instruction. The major has been intentionally constructed to prepare both students desiring immediate employment in an environmental career following their undergraduate graduation from Grace as well as those who plan to go on to graduate school to further their formal education.

**Majors And Minors In The Environmental Biology Program**

**The Bachelor of Science in Environmental Biology** is the major (53–54 credit hours total) offered through the Environmental Biology program. The listed requirements are in addition to the Grace core requirements (left column of check sheet) which all students must complete as well as a Chemistry minor which is required for all Environmental Biology majors.

All students are required to take the following 31 credit hours:
- BSC101 General Biology I
- BSC105 General Biology I Lab
- BSC221 Plant Biology
- BSC223 Plant Biology Lab
- BSC222 Animal Biology
- BSC224 Animal Biology Lab
- BSC414 Genetics
- ENB211 General Ecology
- ENB212 General Ecology Lab
- ENB311 Aquatic Ecology
- ENB312 Aquatic Ecology Lab
- ENB331 Environmental Ethics
- ENB400 Field Education
- ENB401 Environmental Analysis (Senior Seminar)

Students must also choose from the following electives (at least 8 credit hours):
- BSC245 Biochemistry
- BSC353 Microbiology
- BSC354 Microbiology Lab
- SCI116 Theories on Origins
- SCI224 Physical Geology
- And various Au Sable Institute courses

Students are required to take the following math and foundational science courses (14 credit hours):
- MAT121 Calculus I
- MAT320 Probability & Statistics
- PHY201 General Physics I
PHY203 General Physics I Lab
PHY202 General Physics II
PHY204 General Physics II Lab

A Chemistry minor is also required for the Environmental Biology major. Environmental Chemistry (ENB 321) must be chosen as the elective course for this minor.

Environmental Biology Minor
The requirement for a minor in biology is 14–15 hours in the Science Division including:

All students are required to take the following 10–11 credit hours:
  BSC100 (or 101) Biology Science Survey (or General Biology I)
  BSC104 (or 105) Biology Science Survey Lab (or General Biology I Lab)
  ENB211 General Ecology
  ENB212 General Ecology Lab
  ENB331 Environmental Ethics

Students must also choose from the following electives (at least 4 credit hours):
  ENB311 Aquatic Ecology
  ENB312 Aquatic Ecology Lab
  various Au Sable Institute courses
  BSC221 Plant Biology
  BSC223 Plant Biology Lab
  BSC222 Animal Biology
  BSC224 Animal Biology Lab

PHYSICAL SCIENCE PROGRAM
The purpose of the physical science program at Grace College is to present the facts and theories of physical science and to provide laboratory experiences which emphasize scientific methods. The department seeks to help the student appreciate the truths of creation as revealed in the physical sciences. The courses are designed for students who desire broad cultural training, for prospective teachers, and for pre-professional students. The program offered is the chemistry minor.

Physical Science Minors

Chemistry Minor
The requirement for a minor in chemistry is 19 credit hours of selected courses in chemistry. Environmental Biology majors are required to complete a chemistry minor and must choose Environmental Chemistry (ENB 321) as their elective.

All students are required to take the following 16 credit hours:
CHM 111 General Chemistry I
CHM 113 General Chemistry I Lab
CHM 112 General Chemistry II
CHM 114 General Chemistry II Lab
CHM 211 Organic Chemistry I
CHM 213 Organic Chemistry I Lab
CHM 212 Organic Chemistry II
CHM 214 Organic Chemistry II Lab

Students must also choose from the following electives (at least 3 credit hours):
BSC245 Biochemistry
ENB321 Environmental Chemistry
ENB322 Environmental Chemistry Lab

**MATHEMATICS PROGRAM**

The mathematics program at Grace College is devoted to training students for competency in the mainstream areas of mathematics. The mathematics program is built on two areas of strength: education and pure math. The math education—secondary major (B.A. and B.S. degree options) prepares students for a career in teaching. The mathematics program offers a variety of liberal arts and support courses to service other majors.

**Liberal Arts Electives**

Every student at Grace College is required to take a math class as one of his or her liberal arts electives (certain majors have specific requirements). The mathematics program offers a variety of courses to fit the interests of each student: Mathematical Models, Business Mathematics, Probability and Statistics, Calculus 1, etc.

**Course Credit by Examination**

**CLEP Exams**

Students may obtain college credit for calculus through the CLEP testing program. See the Academic Affairs Office in order to arrange CLEP exams.

**MAT121 (Calculus 1)**

Students may receive credit for MAT121 by either passing the high school advanced placement A-B Calculus exam with a score of “4” or “5,” or by passing the CLEP exam for calculus.

**MAT122 (Calculus 2)**

Students may receive credit for MAT122 by either passing the high school advanced placement B-C Calculus exam with a score of “4” or “5.”
Mathematics Programs
The following programs are offered through the mathematics program. The listed requirements, unless otherwise specified, are in addition to the liberal arts core requirements and the liberal arts elective requirements which every student must take.

MAJORS AND MINORS IN THE MATHEMATICS PROGRAM

Bachelor of Science in Mathematics Education—Secondary
Note: The general education core elective requirement of a class with an MAT prefix is met by this major.

Degree Requirements:
One of the following courses:
  SCI223 Physical Geography
  SCI224 Physical Geology
  SCI236 Introduction to Astronomy
  PHY202/204 General Physics II & Lab
All of the following:
  ISM110 Introduction to Technology
  PHY201/203 General Physics I & Lab
  MAT121 Calculus I
  MAT122 Calculus II
  MAT223 Calculus III
  MAT224 Calculus IV
  MAT313 Linear Algebra
  MAT320 Probability & Statistics
  MAT328 Modern Geometry
  MAT402 Senior Seminar in Mathematics
  MAT414 Modern Algebra
  MAT464 Methods of Teaching Mathematics
Two of the following courses:
  MAT326 History of Mathematics
  MAT338 Number Theory
  MAT393 Independent Study in Mathematics
  MAT420 Probability Theory
  MAT425 Real Analysis
  MAT483 Research in Mathematics

Professional Education Requirements:
EDU110 Foundations of Education
EDU235 Instructional Methods & Materials
EDU240 Educational Psychology
EDU244 Exceptional Learners
EDU254 Diversity in the Classroom
EDU265 Computer Applications in Education
EDU311 Classroom Management
EDU332 Professionalism in Teaching
EDU333 Classroom Assessment
EDU430 Philosophy of Education
EDU471-5 Student Teaching
EDU495 Senior Seminar
MAT464 Methods of Teaching Mathematics

A minor is not required.

Bachelor of Arts in Mathematics Education—Secondary Degree Requirements:

All of the following:
  ISM110 Introduction to Technology
  MAT121 Calculus I
  MAT122 Calculus II
  MAT224 Calculus IV
  MAT313 Linear Algebra
  MAT320 Probability & Statistics
  MAT328 Modern Geometry
  MAT402 Senior Seminar in Mathematics
  MAT414 Modern Algebra
  MAT464 Methods of Teaching Mathematics

Two of the following courses:
  MAT326 History of Mathematics
  MAT338 Number Theory
  MAT393 Independent Study in Mathematics
  MAT420 Probability Theory
  MAT483 Research in Mathematics

Complete intermediate year (level 200) of a modern foreign language

Professional Education Requirements:

EDU110 Foundations of Education
EDU235 Instructional Methods & Materials
EDU240 Educational Psychology
EDU244 Exceptional Learners
EDU254 Diversity in the Classroom
EDU265 Computer Applications in Education
EDU311 Classroom Management
EDU332 Professionalism in Teaching
EDU333 Classroom Assessment
EDU430 Philosophy of Education
EDU471-5 Student Teaching
EDU495 Senior Seminar
MAT464 Methods of Teaching Mathematics

A minor is not required.

Bachelor of Science in Mathematics
Degree Requirements:
ISM110 Intro to Technology
MAT121 Calculus I
MAT122 Calculus II
MAT223 Calculus III
MAT224 Calculus IV
MAT313 Linear Algebra
MAT320 Probability and Statistics
MAT328 Modern Geometry
MAT402 Senior Seminar in Mathematics
MAT414 Modern Algebra
PHY201/203 Physics & Lab
Choose 2 of the following:
MAT321 Differential Equations
MAT326 History of Mathematics
MAT338 Number Theory
MAT393 Independent Study in Mathematics
MAT420 Probability Theory
MAT428 Real Analysis
MAT483 Research in Mathematics
Choose 1 of the following:
SCI223 Physical Geography
SCI224 Physical Geology
SCI236 Introduction to Astronomy
PHY202/204 Physics II & Lab

Bachelor of Arts in Mathematics
Degree Requirements:
ISM110 Intro to Technology
MAT121 Calculus I
MAT122 Calculus II
MAT223 Calculus III
MAT224 Calculus IV
MAT313 Linear Algebra
MAT320 Probability and Statistics
MAT328 Modern Geometry
MAT402 Senior Seminar in Mathematics
MAT414 Modern Algebra
Choose 2 of the following:
MAT321 Differential Equations
MAT326 History of Mathematics
MAT338 Number Theory
MAT393 Independent Study in Mathematics
MAT420 Probability Theory
MAT428 Real Analysis
MAT483 Research in Mathematics

Complete intermediate year of language & culture
201 & 202 in French or Spanish
201 in Greek or 202 in Hebrew

A minor is required.

Minor in Mathematics
Note: The general education core elective requirement of a class with an MAT prefix is met by this minor.

Degree Requirements:
MAT121 Calculus I
MAT122 Calculus II
MAT223 Calculus III
MAT313 Linear Algebra

Two of the following courses:
MAT224 Calculus IV
MAT326 History of Mathematics
MAT328 Modern Geometry
MAT338 Number Theory
MAT414 Modern Algebra
MAT420 Probability Theory
COURSE DESCRIPTIONS

Biology

**BSC100 Biological Science Survey**
A study of living organisms, their structure, function, and relationships to their non-living environment, to each other, and to man. Special attention is given to cellular biology as it applies to both lower and higher forms of life. Students must enroll concurrently in BSC104 Biological Science Survey Laboratory. (Credit will not be given for both BSC100 & BSC101). Two hours lecture per week. Three credit hours.

**BSC104 Biological Science Survey Laboratory**
The laboratory is designed to support BSC100 and must be taken concurrently with the course. One two-hour laboratory per week.

**BSC101 General Biology I**
Principles of structure, function, and cellular organisms. Includes an introduction to the scientific method, characteristics of cytoplasm, and basic cytology, energy acquisition and release and heredity. Also includes basic plant structure and function. Students must enroll concurrently in BSC105. Three hours lecture per week. Four credit hours.

**BSC105 General Biology I Laboratory**
The laboratory is designed to support BSC101 and must be taken concurrently with the course. One two-hour laboratory per week.

**BSC102 General Biology II**
A continuation of BSC101. Includes structure, function and interrelationships of the organ systems of animals with particular attention to the human body. Also includes introductory taxonomy, surveying the major groups of plants and animals. Three hours lecture per week. Prerequisite: BSC101 or permission of the instructor. Students must enroll concurrently in BSC106. Four credit hours.

**BSC106 General Biology II Laboratory**
The laboratory is designed to support BSC102 and must be taken concurrently with the course. One two-hour laboratory per week.

**BSC103 Human Biology**
This course is designed to develop an understanding of the interrelationship between structure and function in the human body. It begins by introducing the student to cellular biology, inheritance, and genetic engineering. It covers various human organ systems with special emphasis on health, disease, and current health care issues. (Credit will not be given for both BSC101 and BSC103.) Students must enroll concurrently in BSC107. Three credit hours.
BSC107 Human Biology Laboratory
The laboratory is designed to support BSC103 and must be taken concurrently with the course. One two-hour laboratory per week.

BSC218 Nutrition
Functions and interrelationships of food nutrients throughout the life cycle of man. Includes digestion, absorption and metabolism of nutrients, as well as dietary evaluation and modification for physiological needs. Other areas of study include: role of social, psychological and cultural factors in food selection. Prerequisite BSC100, BSC101, BSC102, BSC321, be a nursing student or consent of instructor. Three hours of lecture per week. Three credit hours.

BSC221 Plant Biology
Integrated study of plants as organisms. Deals with plant structure, physiology, development, genetics, ecology, and classification of major plant groups. Three hours lecture per week. Prerequisite: BSC101. Students must enroll concurrently in BSC223. Four credit hours.

BSC223 Plant Biology Laboratory
The laboratory is designed to support BSC221 and must be taken concurrently with the course. One two-hour laboratory per week.

BSC222 Animal Biology
Integrated study of animals as organisms. Deals with animal structure, physiology, development, genetics, ecology, and classification of major animal groups. Three hours lecture per week. Prerequisite: BSC101. Students must enroll concurrently in BSC224. Four hours.

BSC224 Animal Biology Laboratory
The laboratory is designed to support BSC222 and must be taken concurrently with the course. One two-hour laboratory per week.

BSC245 Biochemistry
A study of the basic composition and metabolism of carbohydrates, lipids, proteins, enzymes, and nucleic acids. Some consideration is given to biological oxidations, energy transfers, protein biosynthesis, and gene function. Prerequisite: CHM111 or consent of instructor. Three credit hours.

BSC265 Cell and Molecular Biology
A study of the basic principles that guide cellular composition, organization and function. Particular attention will be paid to understanding the molecular mechanism that underlies cell function. Topics studied in the course include, but are not limited to, processes like energy extraction, membrane transport, flow of genetic information, cell surface communication, cell cycle and regulation, cell division, along with the study of specialized cells like gametes, lymphocytes, neurons, muscle cells, and cancer cells. Prerequisite: BSC245 or consent of the instructor. Three credit hours.
BSC321 Anatomy and Physiology I
The study of the basic gross and microscopic anatomy with an introduction to body organization, cytology and histology. This course includes an in-depth study of several major organ systems. Three hours of lecture per week. Prerequisite: BSC101 or consent of the instructor. Students must enroll concurrently in BSC322. Four credit hours.

BSC322 Anatomy and Physiology I Lab
The laboratory is designed to support BSC321 and must be taken concurrently with the course. One two-hour laboratory per week.

BSC323 Anatomy and Physiology II
Anatomy and Physiology II is a continuation of Anatomy and Physiology I with a focus on the remaining organ systems. Three hours of lecture per week. Prerequisite: BSC321 or consent of the instructor. Students must enroll concurrently in BSC324. Four credit hours.

BSC324 Anatomy and Physiology II Lab
The laboratory is designed to support BSC323 and must be taken concurrently with the course. One two-hour laboratory per week.

BSC353 Microbiology
An introductory study of microorganisms dealing with the morphology, physiology and cultivation and identification of microbes and their role in the environment. Other areas studied include: immunology, genetics, metabolism, food, preservation, and diseases. Three hours lecture period each week. Prerequisite: BSC101 or BSC100. Students must enroll concurrently in BSC354. Four credit hours.

BSC354 Microbiology Laboratory
The laboratory is designed to support BSC353 and must be taken concurrently with the course. One two-hour laboratory per week.

BSC381–383 Readings in Biological Science
This course is designed to allow the student a more in-depth investigation of a topic of special interest in the areas of biological science. Prerequisite: permission of the individual instructor. One to three credit hours, non-repeatable.

BSC391–393 Independent Study in Biological Science
Topics or projects to be chosen and investigated in the areas of biological science in consultation with the individual instructor. Prerequisite: permission of the biology curriculum director. One to three credit hours, non-repeatable.

BSC402 Biology Senior Seminar
A course designed to give biology majors the opportunity to apply their knowledge and study skills to the investigation of a relevant, complex problem in biology with global implications. Such an investigation is expected to be
multidisciplinary, penetrating beyond the boundary of traditional biology. Students will be required to utilize the competencies of reading, writing, speaking, critical thinking and world view in their study and presentation of their results. Three credit hours.

**BSC414 Genetics**
A study of genetic mechanisms and processes, recombination, genetic interaction, and gene regulation. Prerequisite: BSC101 or consent of the instructor. Three credit hours.

**BSC481–483 Research in Biological Science**
A course designed to give the student an opportunity to do individual research on special problems in biology. Prerequisite: BSC101, BSC102, BSC245, or consent of the biology curriculum director. One to three credit hours. Maximum of six hours permitted.

**Chemistry**

**CHM105 Introduction to Chemistry**
A course designed to give the student a broad introduction to general, organic, and biological chemistry. The lecture emphasizes general chemical concepts while the laboratory concentrates on techniques and data handling. The course involves three class periods and one three-hour laboratory period each week. Three credit hours.

**CHM 106 Introduction to Chemistry Lab**
One hour.

**CHM111–112 General Chemistry I and II**
A course designed to give the student knowledge of the principles of general chemistry. The lecture will involve general aspects of physical chemistry, organic chemistry, inorganic chemistry, and qualitative and quantitative chemistry. The laboratory will emphasize techniques and procedures relevant to lecture topics. The course will involve three class periods and one three-hour laboratory period each week. Prerequisites: One year of high school chemistry and two years of high school mathematics. Three credit hours.

**CHM113–114 General Chemistry Lab**
One hour.

**CHM211–212 Organic Chemistry I and II**
A study of carbon chemistry and its relationship to life processes. A course designed to give the student a broad knowledge of the properties and reactions of organic compounds. Prerequisite: CHM111 or equivalent. Three class periods, one three-hour laboratory period each week. Three credit hours.

**CHM213–214 Organic Chemistry Lab**
One hour.
CHM315 Inorganic Chemistry
A theoretical study of the properties, structure, and bonding in covalent, electron deficient, metallic, organometallic, and ionic compounds, Thermodynamic principles, descriptive chemistry, acid–base theories, non-aqueous systems, and reaction mechanisms are considered. Three class periods and one laboratory period each week. Prerequisites: CHM111–112 or equivalent. Three credit hours.

CHM316 Inorganic Chemistry Lab
One hour.

CHM340 Selected Topics in Chemistry
A course designed to give the student an in-depth study of some specific aspect of chemistry not normally covered in other required courses. Course topics will fluctuate with student needs and interests. The course involves two class periods each week. Prerequisite: Dependent on topic, see instructor. Two credit hours.

Environmental Biology

ENB211 General Ecology
A study of the interaction of organisms with their physical environment and with each other. Natural selection, biological populations, and their environmental relationships. Prerequisite: BSC100 or BSC101. Students must enroll concurrently in ENB 212. Three credit hours.

ENB212 General Ecology Lab
This laboratory is designed to support ENB 211 and must be taken concurrently with the course. One credit hour.

ENB311 Aquatic Ecology
An overview of physical, chemical, and biological components and their interactions in streams and lakes. Prerequisite: ENB 211. Students must enroll concurrently in ENB 312. Two credit hours.

ENB312 Aquatic Ecology Lab
This laboratory is designed to support ENB 311 and must be taken concurrently with the course. Two credit hours.

ENB321 Environmental Chemistry
A study of the chemistry associated with the atmosphere, soil and groundwater, and surface waters. Prerequisite: CHM 211. Students must enroll concurrently in ENB 322. Four credit hours.

ENB322 Environmental Chemistry Lab
This laboratory is designed to support ENB 321 and must be taken concurrently with the course.
ENB331 Environmental Ethics
An exploratory study of secular and Christian views of the natural world and humanity’s place in it. Special attention on practical application of a Biblical stewardship ethic. Prerequisite: 55 credit hours. Three credit hours.

ENB400 Field Education
Research projects or internships to be chosen in the areas of environmental science and outreach in consultation with the instructor. Prerequisite: permission of the Environmental Biology program director. Two credit hours.

ENB401 Environmental Analysis (Senior Seminar)
Designed as capstone of Environmental Biology major. Meant to teach valuable skills and give experience with tools needed for environmental careers and graduate school. Topics to include scientific writing and presentations, computer simulation modeling, Geographic Information Systems (GIS), and marketing yourself for a job or graduate school. Three credit hours.

General Science

SCI114 Physical Science Survey
Activities and lectures will cover motion, energy, gravity, light, radiation, earth materials, and space. Three credit hours.

SCI116 Theories on Origins
A survey of origin theories with emphasis on creation/evolution. Explores fossils, design, thermodynamics, chronology, flood geology, life in space, current creation research. Three credit hours.

SCI210 Science and Society
A study of major topics from several areas of science. Emphasis will be on the scientific method and the interaction between science and society. Topics will be examined in light of current societal needs. Three credit hours.

SCI223 Physical Geography
A study of the physical features of the earth’s surface and their changing aspects. Provides the basic information needed for the interpretation of maps, climatic terms, soils, and landforms. Three credit hours.

SCI224 Physical Geology
A study of the earth, make up of the crust, weathering, and erosional processes, and mountain building forces. Three credit hours.

SCI236 Introduction to Astronomy
A survey of our created universe: the solar system, types of stars, constellations, and galactic distribution. Emphasis on night observation, laboratory, and individual projects. Three credit hours.

SCI391–393 Independent Study in Physical Science
Topics or projects to be chosen and investigated in the areas of physical science in consultation with the individual instructor. Prerequisite: permission of the physical science curriculum director. One to three credit hours, non-repeatable.

**SCI464 Methods of Teaching Sciences in the Secondary School**
A study of the curriculum and methods of teaching sciences on the secondary level. Three credit hours.

**Physics**

**PHY201–202 General Physics I and II**
A lecture, demonstration, and laboratory class covering mechanics, heat, sound, electricity, relativity, nuclear science, and light. Prerequisites: MAT121–22. Three credit hours.

**PHY203–204 Physics lab**
One hour.

**PHY481–483 Research in Physics**
Designed for research on a topic of interest. One to three credit hours.

**Mathematics**

**MAT111 Mathematics for Elementary School Teachers**
This course investigates a variety of topics necessary for future elementary school teachers. Topics covered include numbers, measurement, probability, statistics, geometry, patterns, spatial relationships, and logic. This is not a methods class; it is a mathematics content class. Prerequisites: 12 credit hours; Basic Algebra and EDU110. Three credit hours.

**MAT117 Business Mathematics**
This course consists of a variety of mathematical topics of particular value in the business world. Topics covered include algebra applications, functions and their graphs, financial formulas, logic, and algorithms. Prerequisites: 12 credit hours; Basic Algebra. Three credit hours.

**MAT118 Mathematical Models**
This is a course on mathematical applications which uses algebra, statistics, logic, and other mathematical concepts to study and model the world around us. Topics include applied statistical applications, fibonacci numbers, the golden ratio, population growth logic, and other applications. Prerequisites: 12 credit hours; Basic Algebra. Three credit hours.

**MAT121 Calculus 1**
This course is a traditional introductory calculus course. We will study functions, limits, derivatives, and integrals. Applications of the derivative and
the Fundamental Theorem of Calculus will be particular highlights of this class. Three credit hours.

**MAT122 Calculus 2**
This course is a continuation of the topics covered in Calculus 1. We will study integration techniques, as well as integrals and derivatives of a variety of functions: logarithms, exponential functions, inverse trigonometric functions, and hyperbolic trigonometric functions. We will also study applications of integration, improper Riemann integrals, and L’Hopital’s rule for taking limits. Prerequisites: MAT121 or permission of the mathematics curriculum director. Three credit hours.

**MAT223 Calculus 3**
We begin this course by investigating infinite sequences and infinite series; this consists of approximately half of the course. We will study particular classes of infinite series, a variety of convergence tests for infinite series, and techniques for finding power series representations for functions. The second half of this course is an investigation of limits, derivatives, and integrals of functions of more than one variable. Prerequisites: MAT122 or permission of the mathematics curriculum director. Three credit hours.

**MAT224 Calculus 4**
This class is a culmination of the topics covered in Calculus 1, Calculus 2, and Calculus 3. We will study various applications of calculus, further topics of multivariable calculus, and ways in which calculus interplays with the other mathematical disciplines (such as linear algebra, probability theory, and complex analysis). Prerequisites: MAT223 or permission of the mathematics curriculum director. Three credit hours.

**MAT313 Linear Algebra**
This class is an introductory course in matrices and vector spaces. We will study the arithmetic of matrices and how to utilize matrices to solve systems of linear equations. Our study of matrices will give us a natural entry point into the theory of vector spaces. We will study the vector space axioms and their consequences, and finish the class by investigating the major theorems involving linear transformations and bases of vector spaces. Prerequisite: MAT223. Three credit hours.

**MAT320 Probability and Statistics**
This is an introductory course in probability and statistics. Topics covered include probability theorems and models, statistical techniques, and practices for applying statistical techniques in the world around us. Prerequisites: 12 credit hours; Basic Algebra. Three credit hours.

**MAT326 History of Mathematics**
In this course we will study the development of mathematics from ancient history up through today; the significant people and cultures behind the development of mathematics; and the symbols, the theorems, and the applications of mathematics throughout the centuries. We will see how the mathematics of the day was revolutionized with the discovery of new theorems, and how often times the development of mathematics within a culture went hand in hand with the development of the culture itself. Prerequisite: MAT122. Three credit hours.

**MAT328 Modern Geometry**
This course is a thorough investigation of the axioms and theorems of Euclidean geometry. Throughout this course we will also cover several topics in non-Euclidean geometry, symbolic logic, and axiomatic systems in general. This course is designed to thoroughly equip a future high school teacher with the content knowledge needed to successfully teach geometry. Prerequisite: MAT223. Three credit hours.

**MAT338 Number Theory**
This is a course on integers, and covers a variety of theorems dealing with mathematical induction, prime numbers, congruence equations, and arithmetic functions. Throughout this course we lay the foundation for understanding the RSA encryption algorithm. We finish this course by studying the RSA encryption algorithm and its applications. Prerequisite: MAT122. Three credit hours.

**MAT393 Independent Study in Mathematics**
An independent study in mathematics is designed for students who have excelled in several post-calculus classes and have a desire to study a topic that is not currently available in the curriculum. A student wishing to take an independent study will establish a topic to study and seek out a faculty member to whom he or she will be responsible. Once a topic and a faculty member are determined, permission for the independent study must be obtained from the mathematics curriculum director. Independent study in mathematics is a non-repeatable class. Prerequisites: MAT224; availability of professor; permission of the mathematics curriculum director. Three credit hours.

**MAT402 Senior Seminar in Mathematics**
This is a capstone course for the mathematics and the mathematics education majors. This course will cover several topics that draw together the various mathematical disciplines, and will portray the global perspective of mainstream mathematics. This course may meet in conjunction with other capstone courses within the science division for a portion of the semester. Prerequisites: declared mathematics or mathematics education major; MAT224. Three credit hours.

**MAT414 Modern Algebra**
Standard algebra is a study of the arithmetic structure of numbers, and of functions of numbers. There are other objects that we study in mathematics
besides numbers, and consequently other arithmetic structures; for example, matrices, functions, and permutations. Modern Algebra is the study of general arithmetic structures, and of functions of these general structures. In this course we study the axioms of group theory and develop the body of theorems associated with these axioms. If time permits, we will also investigate the axioms and theorems of ring theory and field theory. Prerequisite: MAT223. Three credit hours.

**MAT420 Probability Theory**
In this course we study the axioms and theorems of probability theory. We study probability distributions of discrete and continuous random variables, and many of their applications. Throughout this course we will use a significant amount of calculus to develop the theory of probability. Prerequisite: MAT223. Three credit hours.

**MAT428 Real Analysis**
Analytic properties of real functions, sequences and series.

**MAT 464 Methods of Teaching Mathematics**
This course is designed to help prepare the future high school teacher for his or her career in the classroom. We investigate the standard high school math curriculum, and study methods of teaching mathematical concepts to students at various levels within the curriculum. Prerequisite: MAT223. Three credit hours.

**MAT483 Research in Mathematics**
Research in mathematics is designed for students who have excelled in several post-calculus classes and have a desire to investigate the fine details of a topic in an attempt to advance the theory with new theorems, new proofs, or new applications. A student wishing to undertake such a research project must do so under the strict supervision of a faculty member and with the permission of the mathematics curriculum director. The supervising faculty member must be willing to invest significant time into helping the student find appropriate resources, helping the student ask appropriate research questions, and helping the student seek out coherent answers to the questions asked. This course is intended to give students precursory experience into what a graduate thesis experience would be like. Research in mathematics is a non-repeatable class. Prerequisites: MAT224; availability of professor; permission of mathematics curriculum director. Three credit hours.
Nursing Department

in cooperation with Bethel University, Indiana

JoLynn Reimer, R.N., M.S.N.
Chair
Nursing

To meet the growing number of students interested in nursing as a major field of study, Grace College teams with Bethel College in Mishawaka, Indiana, to offer nursing degrees. The nursing program at Bethel College was established in 1980 and has a strong reputation as one of Indiana’s most respected programs in nursing education. Bethel College’s nursing graduates have a strong history of passing the state board examination on the first attempt, qualifying for licenses as registered nurses.

Nursing students on the Grace campus complete liberal arts classes, including general education and biblical studies classes, under the guidance of Grace College professors. At the same time, they have the opportunity to study nursing with Bethel College nursing professors on the Grace College campus.

The Bethel College program offered on the Grace College campus enables students to live on the Grace campus and become part of the Grace campus community while also completing the highly regarded Bethel nursing degree.

Due to the rigor involved in the nursing program, both Grace College and Bethel College recommend that incoming freshmen enter the three-year ADN track.

Click here for a .pdf file of the Bethel/Grace nursing brochure, which details the two- and three-year options in the program for an Associate Degree in Nursing (ADN) while at Grace College, as well as the opportunity to continue your education and receive a bachelors degree through the R.N. & B.S.N. Completion Program in the adult format.