Our Mission

The College of Liberal Arts and Sciences (CLAS) at Alfred University fosters students’ intellectual, creative, and personal development. Our curriculum builds upon the University’s history of inclusiveness, commitment to global awareness, and enduring ties to the community. Through a breadth of programs and the depth offered in the majors, students explore and engage with the world, think critically about it, act creatively within it, reflect on their experiences, and share the knowledge they acquire with others. We educate life-long learners.

The Bachelor’s Degree

The undergraduate curriculum in Alfred University’s College of Liberal Arts and Sciences emphasizes those areas of study which form the basis for any truly liberal education. We use the term “liberal” here in its original sense, that of freeing the mind to explore various fields of interest.

Our curriculum provides students with opportunities to deepen their knowledge and develop skills so that they may better:

- explore human cultures, and the physical and natural world;
- communicate as readers, writers, speakers, listeners, and artists;
- respond to problems and/or opportunities creatively;
- practice personal and social awareness through engagement with local and global communities;
- and apply knowledge and skills across general and specialized studies.

We believe that liberally educated citizens can best perform complex intellectual tasks, tasks which have technical, moral, and political consequences. Our goal is to give our students the constructive skills to accomplish those tasks. These skills include conceptual analysis, disciplined writing, and a creative approach to problem solving. We put specialized knowledge and inquiry into values within living contexts, encouraging our students to meet real demands in real situations. We prepare our students not only for multiple careers, but for graduate and professional schools and for leadership in the world.

Our requirements for the bachelor’s degree combine breadth of study in a range of subjects and disciplines, represented by the General Education Program, with specialization in a major field of study. The College offers 25 majors and numerous minors. In addition, students may take courses and complete minors in other colleges within the University, as long as prerequisites for these courses and minors are met.

Graduation Requirements

To qualify for a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.), students must complete the following:

- a minimum of 124 credit hours with a cumulative grade point average of at least 2.00, of which at least 90 credits must be liberal arts course work (as defined by New York State Department of Education) for the B.A., and at least 60 liberal arts credits for the B.S.
- the requirements for the CLAS General Education Program (see below)
- the First-Year Experience (FYE) requirement or Transfer Student Seminar
- the requirements for a CLAS approved major
- the University Global Perspective requirement
- the University Physical Education requirement
College of Liberal Arts and Sciences

- at least 45 credits in residence at Alfred University
- the final 30 semester hours in residence (for exceptions see AU policy on “Transfer of Credit”)

Transfer Credits
The following criteria apply to the evaluation of transfer records:
- Decisions about whether a transfer course satisfies a specific General Education requirement are made by the Dean, in consultation with the academic program with oversight for that particular General Education area.
- Decisions about whether a transfer course satisfies a major or minor requirement are made by the Chair or Director of the specific academic program, in consultation with the faculty of that program.
- A three credit-hour course will satisfy a four-credit hour General Education requirement; however, only 3 credits will be applied in transfer credit.
- See the University policy on transfer credit for more detailed information.

Advising
The College of Liberal Arts & Sciences believes that high quality academic advising is essential to the well-being of both the College and its students. Our faculty members are dedicated to both teaching and advising. They give the kind of personal attention that encourages students to find their direction and to succeed in their efforts. Upon matriculation, each student is assigned a faculty advisor. If the student has expressed an interest in a particular major at matriculation, the student will be assigned to an advisor within that major. If the student has not expressed a major interest at matriculation, he or she will begin with an advisor that will help the student to explore majors, and assigned to an advisor in the major area once the major has been formally declared. Faculty advisors are available not only to assist in choosing courses and majors, but also to help students develop a well-rounded plan to reach individual personal and professional goals.

Good advising is a collaboration. Students are ultimately responsible for making their own decisions and for meeting all requirements. Advisors encourage self-reliance, assist students in exploring opportunities at AU and beyond, and connect students to a community of resources at Alfred University.

General Education Requirements for All Students

The General Education Program, required of all students in the College of Liberal Arts and Sciences, is designed to help students hone their fundamental academic skills and expand their intellectual breadth. In addition it creates common points of reference for students pursuing different majors. The program ensures that students have the tools they will need for advanced study and exposes them to different ways of thinking about their world. This curriculum allows students to develop the kind of intellectual flexibility they will need for meeting future challenges.

The program has two main features: (1) it emphasizes the importance of each student demonstrating basic competencies early in the college program, either through course work that teaches these competencies or through performance on standardized tests; this is an important part of the curriculum since it provides tools essential for successful work in advanced courses, as well as promoting skills that are valuable after graduation. (2) It requires each student to have exposure to at least six areas of knowledge; this is intended to provide a broad foundation both for more advanced study and for a lasting intellectual engagement with scholarly and cultural issues.
The General Education Program is divided into two parts: Basic Competencies and Areas of Knowledge. Students are expected to complete the Basic Competencies during the first two years of study.

Students are encouraged, although not required, to complete the Areas of Knowledge during their first two years, as this provides an opportunity for intellectual exploration as students consider which academic area they would like to focus on for their major. These requirements are normally satisfied through course work; some may be met through proficiency examinations (which carry no academic credit).

**Basic Competencies**

The CLAS Basic Competencies requirements are in the areas of Written Communication, Quantitative Reasoning, and Foreign Languages. The ability to write well, communicate in another language, and use quantitative reasoning to problem solve are important skills greatly valued in today’s world. Most students continue to hone their skills in writing, quantitative reasoning, and languages beyond the basic General Education requirements through intermediate and advanced level courses offered in the College.

I. **Written Communication**

Each student must demonstrate writing competency through the successful completion of ENGL 102 or an equivalent (as approved by the English Division faculty). Depending on college entrance exam scores, students are placed in the appropriate level writing course. Normally students enroll in ENGL 101 and 102 in their first year in the College.

Students with the following scores must take both ENGL 101 and ENGL 102:
- SAT Writing 499 or lower
- SAT Verbal 539 or lower
- ACT-English 25 or lower

Students with the following scores should take ENGL 102:
- SAT Writing 500-699
- SAT Verbal 540-739
- ACT English 26-29

Students with the following scores are exempted from ENGL 101 and 102, having demonstrated sufficient college level writing competency:
- SAT Writing 700 or higher
- SAT Verbal 740 or higher
- ACT English 30 or higher

II. **Foreign Language**

To demonstrate a basic competency in a language other than English, each student must successfully complete the equivalent of the second semester of the first year of a foreign language at the college level. Students may also demonstrate this proficiency through a language placement exam or a challenge exam, arranged through the Division of Modern Languages. Students are expected to begin undertaking the language study no later than their sophomore year and continue each subsequent semester with the language until the requirement is fulfilled. All students are encouraged to go beyond our basic language requirement in order to deepen their knowledge of and fluency in the language.
College of Liberal Arts and Sciences

Language Placement Exams
Language Placement exams, offered at the beginning of each semester, help to determine the appropriate language course and level for students.

- Students who have taken more than two years of a language in high school and who intend to take the same language at Alfred must take the Placement Exam.
- Students who are bilingual or native speakers or who have spoken the language at home must take the Language Placement Exam to determine level of competency.
- Students who want to demonstrate proficiency in a language not offered by Alfred should consult with the Chair of the Division of Modern Languages.

Students do not need to take the Language Placement Exam if they plan to study a language they have not previously studied. Successful completion of the Language Placement Exam does not confer academic credit.

III. Quantitative Reasoning
Students must demonstrate basic competency in quantitative reasoning. The Quantitative Reasoning requirement is fulfilled by one of the following:
- A score of 630 or higher on the SAT Math
- A score of 28 or higher on the ACT Math
- A score of 4 or higher on the Advanced Placement Exam in either Calculus AB or Calculus BC
- The successful completion of an AU designated Quantitative Reasoning (QR) course (Attribute 03). The following courses are currently designated as QR courses; the list is updated annually and posted on the Alfred University website.
  - BIOL 226 Biostatistics
  - BUSI 113 Business Statistics
  - ENVS 205 Environmental Data Analysis
  - MATH 101 Communicating with Numbers
  - MATH 104 Quantitative Methods for Business
  - MATH 151 Calculus I
  - PHIL 282 Introduction to Logic
  - POLS/SOCI 230 Introduction to Data Analysis and Statistics
  - PSYC 220 Psychological Methods and Statistics
  - SCIE 127 Doing Science

Areas of Knowledge
General Education requirements for different Areas of Knowledge (A-F) provide students with an introduction to different ways of thinking, knowing, and seeing, laying the foundation for a lifetime of inquiry and learning. While many courses are offered in these different academic disciplines, only certain courses in the CLAS curriculum are designated as fulfilling the General Education requirement.

“Attribute” codes in the on-line course system (Banner) help students search for and identify appropriate courses that fill these specific area requirements.

<table>
<thead>
<tr>
<th>Degree Requirement (Attribute) Code</th>
<th>Academic Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Literature (4 credits required)</td>
</tr>
<tr>
<td>B</td>
<td>Philosophy or Religious Studies (4 credits required)</td>
</tr>
<tr>
<td>C</td>
<td>The Arts (4 credits required)</td>
</tr>
<tr>
<td>D</td>
<td>Historical Studies (4 credits required)</td>
</tr>
</tbody>
</table>
E  Social Sciences (8 credits; 4 credits each from two of the following categories):
   • Psychology (E1)
   • Political Science or Economics (E2)
   • Sociology or Anthropology (E3)

F  Natural Sciences (8 credits; at least 2 credits from category F-I)
   • Scientific Inquiry (F-I)
   • Scientific Knowledge (F-II)
   • Science and Society (F-III)

First-Year Experience Program (FYE)
The College’s First-Year Experience program is designed to foster intellectual engagement so that students are able to succeed academically and find a meaningful role for themselves both in the Liberal Arts & Sciences community and as citizens of the world. Each FYE course is taught by a faculty member dedicated to the success of first-year students. Along with a peer leader associated with the course, each FYE faculty member helps new students engage with the Alfred community and transition to college-level learning.

The goals of the FYE program are to:
   • Help students produce high-quality college-level work and develop a positive work ethic.
   • Encourage students to form “learning communities” in which students share responsibilities and support one another in their academic endeavors.
   • Provide first-year students with the opportunity to participate in a small, seminar-style class in which concentrated attention can be paid to each student and close working relationships between students and instructors can develop.
   • Encourage students to become fully integrated into the University community by introducing students to and encouraging participation in a wide variety of extracurricular activities.

The FYE program also provides a foundation for the General Education curriculum. To that end, all FYE courses, successfully completed, fulfill one of the General Education or University requirements.

Transfer Student Program
The CLAS Transfer Student Program is designed to help new transfers make the transition to Alfred University. Students will take the Transfer Seminar (CLAS 101) during their first semester at Alfred. As the cornerstone of the Transfer Student Program, the seminar provides an opportunity for students to get to know the intellectual community they have joined, while introducing them to campus resources that will help them succeed at Alfred. Throughout the seminar, students will further develop core skills that lead to academic and professional accomplishment. The Transfer Student Program also facilitates mentoring relationships among the transfer students and their faculty and peers.

Majors
In addition to the General Education Program, all CLAS students must fulfill the requirements for a major to qualify for a bachelor's degree. (Requirements for each major are found beginning on p. 82 in the catalog and on the AU website.)
A major provides students with an opportunity to delve deeply into the study of a particular subject, developing expertise and critical thinking through sustained and advanced work. At least half of a student’s course work toward the major must be completed at Alfred University. Transfer credits toward the major are approved by the appropriate chair or director, in consultation with program faculty.

Selecting a Major
Students are expected to declare their major(s) by the end of the sophomore year. We advise students to explore various options and become familiar with the requirements for a particular major before filing a major declaration. Students should also discuss their interests and objectives with their academic advisor before declaring a major.

In most cases, students have done some previous course work in the discipline before declaring the major. Faculty members are great resources for discussing possible majors. Students may even choose to pursue double majors within the College of Liberal Arts and Sciences, or double degrees in two of the colleges or schools at Alfred University. However, students interested in pursuing only one major in one of Alfred University’s other colleges or schools will need to formally transfer to that college or school.

Some majors require specific sequencing of courses and careful planning, with some prerequisite courses strongly recommended for the first year. Students preparing for secondary school teaching in an area related to their major should consult with an Education advisor as well as their major advisor to plan their course of study combining major requirements and education courses.

All courses required for a major must be completed with grades of “C” or better. The following majors are offered by the College of Liberal Arts and Sciences:

- Biology
- Chemistry
- Communication Studies
- Comparative Cultures
- Criminal Justice Studies
- English
- Environmental Studies
- Foreign Language and Culture Studies
- General Science
- Geology
- Gerontology
- Global Studies
- History
- Interdepartmental Major
- Interdisciplinary Art
- Interdisciplinary Art with Spanish
- Interdepartmental Art
- Interdisciplinary Art with Spanish
- Mathematics
- Math with Actuarial Science
- Philosophy
- Physics
- Political Science
- Psychology
- Sociology
- Theatre

The requirements and other information for each of these major begin on p. 82.

Individually Structured Major (ISM)
The Individually Structured Major offers students the opportunity to structure an independent, interdisciplinary major in cases where the student's plan of study cannot be accommodated by one or more of the existing majors within the College of Liberal Arts and Sciences. This major is open to highly motivated, self-directed students with a minimum 3.0 grade point average. All courses to be counted in the major must have a grade of C or better.

For students willing to put the time, thought, and effort into creating an ISM, the process and learning experience can be rewarding, especially as students work closely with a team of faculty advisors. The capstone to the ISM is a Baccalaureate Project undertaken in the senior year, which allows students to integrate or exemplify elements of their program in meaningful, creative, and productive ways.
Students pursuing the ISM receive a Bachelor of Arts upon completion of their Alfred University degree requirements.

Each individually structured major requires a formal program proposal, designed by the student in consultation with a Faculty Advisory Board chosen by the student. Students interested in initiating the application process for an ISM should meet with the Assistant Dean of the College of Liberal Arts and Sciences no later than mid-semester of their sophomore year, as the application involves several steps and requires research and time. Complete applications must be received no later than the end of the sophomore year. Proposals are then reviewed by the ISM Faculty Steering Committee and the Dean and must be approved by the beginning of the student’s junior year.

Some of the academic programs designed by students under the auspices of the Individually Structured Major include Art: Museum Studies and Entrepreneurship; Ecological Psychology; Historic Preservation; Integrated Emergency and Disaster Relief Operations; Media Politics; Sustainable Agriculture; and Violence and Conflict Studies.

**Interdepartmental Major**

The Interdepartmental Major offers students flexibility in arranging a program to suit their individual interests, aspirations, and abilities.

The program is especially appropriate for a student with definite academic objectives which do not fit into other regular programs, or when a student’s objectives can be met through a broad, general course of studies. Students selecting this program need to work closely with their faculty advisors to be sure their appropriate professional and career goals are met.

In addition to the other College degree requirements, students in this major select an additional 40 credit hours from those disciplines covered by the General Education Program’s Areas of Knowledge (see p. 76), including at least four credit hours from each of the six areas. In selecting this total of 40 credit hours, students are not limited to the 100 - 200 level courses. The courses for the major need not carry the General Education attribute for that Area of Knowledge. Students are also required to complete 24 credit hours of academic course work at the 300 level or above. All courses to be counted in the major must have a grade of C or better.

**Minors**

Students may elect to declare one or more minors to supplement the major field. A minor allows students the opportunity to broaden their educational experience and may enrich career possibilities. In addition to minors offered by the College of Liberal Arts and Sciences (listed below), many CLAS students pursue minors offered by Alfred University’s other colleges and schools. The minors in business, education, and art history, in particular, complement a number of CLAS programs.

Minors normally range from 14-24 credit hours. As with the major, all courses used to complete a minor must have grades of “C” or better and at least half of the requirements should be completed at Alfred University. The appropriate division Chair should be consulted about matters regarding transfer credits for the minor.
Alfred University provides pre-professional advising programs for students who wish to prepare for the study of art therapy; law; or health professions, including medicine, dentistry, veterinary medicine, and other allied-health programs. Preparation for these graduate professional programs usually involves taking particular, prerequisite courses while an undergraduate. Students may choose to major in anything they wish while taking the prerequisites for these professional programs.

Students with interests in these professional programs should discuss their intentions with their academic advisor and attend workshops and advising hours offered by the faculty advisors for these pre-professional tracks. Depending on the pre-professional track chosen, students may need to start on relevant course work in their first or second year. It takes careful planning to see that both major and pre-professional requirements are completed on schedule. Students interested in pursuing graduate programs in one of the many healthcare fields should consider declaring a Pre-health Sciences Concentration.

### Concentration in Pre-health Sciences

The Pre-health Sciences concentration provides students with the core science courses that are a prerequisite for application to most health-related graduate professional programs. Students interested in professions in medicine, dentistry, veterinary medicine, pharmacy, optometry and other allied health fields may want to pursue this concentration in conjunction with their major. The Pre-health Sciences Concentration, with its breadth of courses in the sciences, provides a solid foundation for advanced courses in the sciences as well as basic science preparation for health professions graduate programs.

While the Pre-health Sciences concentration meets the core science requirements expected for admission to most health-related professional schools, be aware that requirements vary among professional schools and there can be additional requirements (e.g., advanced level courses, minimum grade point average, courses in the humanities or social sciences, internships in the field, etc.).

<table>
<thead>
<tr>
<th>Pre-Professional Advising</th>
<th>Business</th>
<th>Health Professions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Therapy</td>
<td></td>
<td></td>
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<tr>
<td>Education</td>
<td></td>
<td></td>
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<tr>
<td>Law</td>
<td></td>
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</tr>
</tbody>
</table>
Students are advised to familiarize themselves with these additional requirements, many of which can be fulfilled at Alfred University within the context of an undergraduate degree program.

Visit the Alfred University Pre-health webpage (www.alfred.edu/academics/pre-health/), attend a Pre-health Professions Workshop, and talk with your advisor to take advantage of the multiple resources at AU to assist with preparation for entry into a health-related professional program.

To have this concentration recognized on the final transcript, a minimum grade point average of 3.0 in the courses that satisfy the concentration is required. (Many medical and veterinary schools expect a GPA of 3.5 or higher.)

**Required Courses:**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH151</td>
<td>Calculus I or Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 152</td>
<td>Calculus I or Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>One Statistics Course or a second Math Course beyond Precalculus</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>Introductory General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 125</td>
<td>Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS112</td>
<td>Introductory General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 126</td>
<td>Physics II</td>
<td>4</td>
</tr>
<tr>
<td>(note: some health professional schools require a calculus-based physics course [PHYS125/126], so choose physics courses accordingly)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL201</td>
<td>Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL202</td>
<td>Biology II</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 150</td>
<td>Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 212</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 213</td>
<td>Structure and Function of Organisms</td>
<td>4</td>
</tr>
<tr>
<td>CHEM105</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM106</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM315</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM316</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credit Hours Required</strong></td>
<td><strong>40-44</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Pre-professional Advising in Business**

Students interested in business may take courses or pursue a minor offered by Alfred University’s School of Business in the College of Professional Studies. Completion of the minor allows students in the College of Liberal Arts & Sciences, who have successfully completed appropriate business courses while undergraduates, to be eligible to enter Alfred University’s Masters in Business Administration (MBA) and complete requirements for that degree within one year of receiving the bachelor’s degree. For more information about this option, contact the School of Business or the CLAS Dean’s Office.

**Pre-professional Advising in Education**

Students who have an interest in becoming teachers in PreK-12 schools have several options at Alfred University that will help prepare them for this goal. A major in Early Childhood/Childhood Education is offered through the College of Professional Studies.
Students interested in teaching middle school or high school normally choose a major in the field they want to teach (e.g., History, Math, Spanish, Art), while simultaneously completing a minor in Education. For those who want to teach art, we recommend the major in Interdisciplinary Art with Art Education offered by the College of Liberal Arts & Sciences. As the combination of coursework to prepare for teacher certification requires careful planning and particular course-sequencing, leading to a semester of practice teaching, students should meet with an Education program faculty advisor early on to review options, requirements, and planning relevant to achieving their goals to become a teacher.

Internships

An internship is defined as field or work experience undertaken by a student for academic credit in a setting connecting a student’s academic interests to a career opportunity. The CLAS academic units work closely with the Career Development Center staff to support internships for our students.

Some internships involve participating in a formal program, while others are established through personal, informal or professional contacts between a supervising faculty member, career counselor or the student, and an institution or agency willing to take on the responsibility for supervising an intern in the field setting.

Internships may be paid or unpaid. Credit will not be given for work experience alone. Any internship experience must involve a formal writing assignment to integrate the student’s field experience with his or her academic interests. Student interns are supervised by an academic supervisor who is an Alfred University faculty member and by an on-site supervisor. The academic supervisor has ultimate responsibility for overseeing the internship. Evaluation of a student’s performance is made by the academic supervisor in consultation with the on-site supervisor.

To earn credit toward the degree, students must register for Internship credit during the semester in which they are undertaking the internship and complete the internship contract they have set in consultation with their faculty supervisor.

Students undertaking a summer internship may choose to register for credit during Summer Session or in the semester following the internship, during which the student will complete the formal writing assignment.

Major and Minor Requirements

Anthropology

The Anthropology minors in Biological Anthropology and Cultural Anthropology attract students who want to explore cultural diversity across the globe and through time. These minors are designed to complement student course work in related disciplines or in interdisciplinary programs. Anthropology courses emphasize the application of the anthropological perspective in understanding present-day social issues.
The minor in Biological Anthropology anchors humans in the natural world by emphasizing our evolutionary and genetic past as well as our relationships with other primates. Courses on human health, animal behavior, and comparative anatomy, as well as ecological and environmental perspectives on humans in Belize and southern Africa are among the varied dimensions of this broad minor.

Requirements for the Biological Anthropology minor
I. Core Courses (8 credit hours)
  ANTH 120  Human Origins     4
  BIOL 130  Introduction to Human Genetics   4

II. Electives (12 credit hours)
  ANTH 303  Health & Culture*     4
  ANTH/BIOL 305  Belize and the Caribbean    2
  BIOL 315  Genetics and Evolution of Populations*   4
  BIOL 348  Animal Behavior*     4
  BIOL 375  Comparative Vertebrate Biology*   4
  BIOL 330  Neuropsychology     4
  PSYC 351  Human Sexuality     4
  SOCI 235  Socialization*     4
Total credit hours  20
*these courses have prerequisites; see course descriptions

The minor in Cultural Anthropology grounds students in the broad perspectives, subject matter, and methods of the discipline. It gives students the option of core course work in two of the main fields of anthropology (cultural and physical) or allows students to focus more on cultural and linguistic anthropology, and related topics in two additional elective courses. The anthropological view on cultures, both large and small, modern and traditional, emphasizes comparative, holistic, historical, and multidisciplinary frames of analysis. Advanced study of a language and study abroad are always encouraged to add depth to these minors.

Requirements for the Cultural Anthropology minor
I. Core Courses (8 credit hours)
  ANTH 110  Cultural Anthropology     4
  ANTH 120  Human Origins      4
  or ANTH 304  Language and Culture*

II. Electives (8 credit hours)
  ANTH 200/300  Special Topics   1-4
  ANTH 302  The Nacirema        4
  ANTH 303  Health and Culture*     4
  ANTH 305  Belize and the Caribbean    2
  ANTH 311  Nip, Tuck, Perm, Pierce, Tattoo, Embalm  2
  ANTH 312  Violence and Culture*     4
  ANTH 400  Special Problems in Anthropology*   1-4
  ANTH 450  Independent Study     1-4
  ANTH 470  Field Work*     2-4
  ANTH 495  Global Issues Seminar*     4
  ARTH 200/300/400  Special Topics   1-4
  ARTH 304  Global Arts: Contemporary Asia   4
  ARTH 305  Arts of India        4
  RLGS 200/300  Special Topics   1-4
  RLGS 307  Myth, Ritual, and the Creative Process   4
Total credit hours  16
*these courses have prerequisites; see course descriptions
Arts Management

The Arts Management Minor provides an interdisciplinary approach to the business of art and management of arts organizations. Students have the opportunity to learn and explore the theoretical content and practical skills that engage arts professionals managing individual businesses, serving community arts organizations, and managing not-for-profit arts organizations in the visual, performing, and literary arts. The Arts Management minor is jointly offered by the School of Business in the College of Professional Studies, the School of Art and Design, and the College of Liberal Arts and Sciences and is open to all AU students. (See p. 146 for the Arts Management minor requirements.)

Astronomy

Students may take a variety of courses to become acquainted with modern astronomical thought and observational technique. One may prepare for graduate study in astronomy or astrophysics by completing a Physics major and electing additional Astronomy courses in the Astrophysics Concentration.

The John L. Stull Observatory is an unusually well-equipped facility devoted exclusively to the instruction of undergraduate students. Its six domes house a 9 inch refractor, reflectors of 16 (two of them), 20 and 32 inch apertures (one 16 inch and the 32 inch instruments are computer controlled), two solar telescopes and two commercial 8 inch telescopes. An adjoining classroom building houses a darkroom and auxiliary equipment including a set of CCD electronic cameras and a network of computers for displaying these images.

**Requirements for the minor**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 107</td>
<td>Elementary Astronomy Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ASTR 302*</td>
<td>Planetary Science</td>
<td>2</td>
</tr>
<tr>
<td>ASTR 303*</td>
<td>Stellar Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 304*</td>
<td>Galactic Astronomy and Cosmology</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 307</td>
<td>Observational Astronomy</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total credit hours</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

*Note: These courses have prerequisites. See course descriptions.*

Biology

The study of life is in an exceptionally exciting phase, with new discoveries and exciting technologies pushing the boundaries of what we know about ourselves and the living world around us. Biology graduates today need to be able to move into a diverse array of careers, from health related professions such as medicine, dentistry and veterinary, to post graduate study in a range of areas from biotechnology to ecology, to employment opportunities such as teaching or biological research. We train our students to have a strong, broad foundation in the discipline while providing numerous opportunities for students to develop specialized expertise along with the technical and research skills needed to be competitive applicants when they leave Alfred University. Along with a solid, diverse education in the liberal arts, our curriculum facilitates double and co-majors with other disciplines and serves as solid foundation for many career choices.
For instance, students interested in the intersection of biology and materials engineering may minor in Biomaterials Science in the Inamori School of Engineering. Many biology majors earn minors or majors in Chemistry while completing cross-disciplinary Biological Chemistry courses linking our Biology and Chemistry programs. Those with interest in global and human ecology may participate in the interdisciplinary Environmental Studies Program. Students in other disciplines can complete a minor in Biology or in Biological Anthropology, and our biology majors may have minors in a diverse range of STEM and non-STEM fields.

We have a strong learner-centered focus throughout our curriculum. Students are engaged in course objectives through lectures, laboratory, fieldwork, activities, discussions, and seminars. Our core courses are designed to allow students to develop the technical and research skills needed so that they may participate as research collaborators in our BIOL 400 Research Topics courses. These Research Topics courses have enrollments limited to 6-8 students, and are designed around investigative questions in the areas of animal behavior, biochemistry, cell biology, microbiology and plant biology, with each student focusing on related but independent research questions. Students enrolled in these courses have the opportunity to present research findings at regional and national meetings, or to participate in manuscript preparation. We especially encourage our students to be involved in undergraduate research projects and to seek summer and semester internship and study abroad experiences.

Requirements for the major

Each student completes a core of courses and selects a prescribed number of elective courses related to his/her personal and career interests. Additional courses in chemistry, mathematics, and physics are required or recommended. All courses taken as part of the Biology major must be passed with a grade of C or better.

Summary of Requirements for the Biology Major:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation and Core Courses</td>
<td>26</td>
</tr>
<tr>
<td>Specialization Courses</td>
<td>12</td>
</tr>
<tr>
<td>Related Courses</td>
<td>11-16</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>49-54</strong></td>
</tr>
</tbody>
</table>

**Foundation and Core:**

**Take all courses**

- BIOL 150 Biological Foundations 4
- BIOL 211 Biochemistry and Cell Biology 4
- BIOL 212 Principles of Genetics 4
- BIOL 213 Structure and Function of Organisms 4
- BIOL 226 Biostatistics 4
- BIOL 314 Community and Systems Biology 4
- BIOL 390 Junior Seminar 1
- BIOL 490 Biology Research Seminar 1

**Specialization:**

**Take 12 credit hours. Recommend completion of one research intensive course.**

- BIOL 106 Field Botany* 4
- BIOL 300 Topics in Biology 4
- BIOL 302 General Microbiology 4
- BIOL 307 Anatomy & Physiology: Nerves, Muscles, Bones 4
- BIOL 308 Anatomy & Physiology: Viscera 4
- BIOL 315 Genetics and Evolution of Populations 4
- BIOL 322 Botany 4
- BIOL 345 Vertebrate Biology 4
College of Liberal Arts and Sciences

BIOL 346 Animal Nutrition 4
BIOL 348 Animal Behavior 4
BIOL 354 Ecology 4
BIOL 357 Conservation Biology 4
BIOL 358 Biogeography 4
BIOL 375 Comparative Vertebrate Anatomy 4
BIOL 376 Animal Physiology 4
BIOL 402 Immunology 4
BIOL 420 Biochemistry: Proteins and Metabolism 4
BIOL 422 Biochemistry: Nucleic Acids 4
*BIO1.106 for major credit upon completion of special requirements

Research Intensive Electives
BIOL 400 Research Topics 4-5
BIOL 425 Physiological Plant Ecology 4

Related Courses:
Tale all courses; additional courses in math and physics are strongly recommended.
CHEM 105 General Chemistry I 4
CHEM 106 General Chemistry II 4
CHEM 310 Basic Organic Chemistry 4
or 315/316 Organic Chemistry I and II 3-8

Requirements for the Biology minor
A total of 24 credits is required for the Biology minor.
Take one of the following BIOL courses:
BIOL 150 Biological Foundations 4
BIOL 201 Biology I 4
BIOL 202 Biology II 4
CHEM 105 General Chemistry I 4

Plus at least 16 additional credits of BIOL courses (excluding BIOL 226, 450 and 485), selected in consultation with a Biology advisor.
Total credit hours 24

Requirements for the Biological Anthropology minor
The interdisciplinary minor in Biological Anthropology requires foundation courses in Biology and Anthropology. The minor is intended to complement a major in another discipline. (See “Anthropology” section, above, for the list of required courses.)

Preparation for Middle/Adolescent Education
Future science teachers complete the Biology major (49-54 credits), and should consult with faculty advisors in Biology and Education to select appropriate courses in biology and related disciplines.

Chemistry

Chemistry attempts to describe and understand the transformations and structure of matter, the ways matter and light interact, and the physical properties of all substances. Essentially, chemists seek to relate macroscopic observable properties to the nature of matter on an atomic and molecular scale.
Chemistry is a broad field and knowledge of chemistry is essential not only to the student of disciplines such as biology, environmental studies, engineering, ceramics, medicine, and forensics, to name a few, but also to the person who wishes to be liberally educated.

With many scientifically-based issues facing today’s society, some knowledge of chemistry is essential.

The division offers a core major and an American Chemical Society (ACS) approved degree. The core major provides a unique experience that links fundamental knowledge in the classroom with hands-on exploration in the laboratory, and integrates interdisciplinary exercises and a variety of methods for sharing results whenever possible. We value independent research experiences for our students on and off campus and strive to offer a variety of interesting and timely topics courses for all students on campus.

Students with a chemistry degree from Alfred University graduate with a firm background for entry into the job market as a chemist, for advanced study in the discipline, for advanced study in a related discipline or a foundation for various professional schools such as medicine, dentistry, veterinary medicine, law or library science. The ACS approved degree requires the core major plus six additional semester credit hours.

A minor in chemistry is also offered and integrates well with several majors on campus. The minor not only provides breadth of knowledge, but also permits the student to tailor his/her studies to complement a major in other fields. For example, a biology major might emphasize organic chemistry whereas a person in ceramic science might focus on physical, inorganic or analytical chemistry.

**Requirements for the major**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105/106 General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 315/316 Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 321 Introduction to Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343/346* Physical Chemistry I and II</td>
<td>7</td>
</tr>
<tr>
<td>CHEM 345 Physical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 372 Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 374 Inorganic Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 390 Junior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 423 Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 461 Advanced Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 490 Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total credit hours** 39

*Ceramic Engineering and Materials Science majors who also major in Chemistry may take CEMS 214, 235 and 344 for equivalent content.

**Requirements for the ACS approved major**

Above, plus six additional credit hours. These six credits must include BIOL 420 (Biochemistry: Proteins and Metabolism) and at least two credit hours from CHEM 400, CHEM 414, CHEM 450, CHEM 457, CHEM 462, CHEM 485, CHEM 495, CEMS 334, CEMS 342, CEMS 344, CEMS 349, and CEMS 434. These two credits must also include at least 24 clock hours of laboratory time.

**Related Study Required for the Major**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151/152 Calculus I and II</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 111 or 125 Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 112 or 126 Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

For those students who wish to earn the ACS certified degree, BIOL 202 (4 credits) is also required as a prerequisite for BIOL 420.
Requirements for the Chemistry minor
CHEM 105/106  General Chemistry 8
Plus at least 12 additional credits from the following:
CHEM 310 (may not be credited if passing grade in CHEM 315), CHEM 315,
CHEM 316, CHEM 321, CHEM 343*, CHEM 345, CHEM 346*, CHEM 370,
CHEM 372, CHEM 374, CHEM 423*, CHEM/BIOL 420, and CHEM/BIOL 422
Total credit hours 20
*Ceramic Engineering and Materials Science majors who minor in Chemistry may substitute
CEMS 235 for CHEM 343; both CEMS 214 and CEMS 344 for CHEM 346; and both CEMS 347
and CEMS 349 for CHEM 423. No more than 8 credit hours total may be taken outside of the
Chemistry Division.

Communication Studies

We use communication to craft ideas, connect ourselves with others, and to create
personal identities and shared cultures. The methods and practices involved in
communicative processes are gleaned from a long interdisciplinary tradition that
values diversity in both knowledge and practice. The mission of the Communication
Studies program at AU is to help students prepare for their futures by providing a
foundation that teaches them to construct, evaluate, and distribute messages within
and for an increasingly interconnected and globalized society.

The core courses examine elements of the process of communication in a program
which is grounded in the humanistic tradition and contemporary social science.
This plan of study is designed not only for students planning to pursue careers as
leaders in fields such as public relations, journalism, and advertising, but also for
those who wish to acquire an awareness of general communication principles
applicable to many careers. Moreover, since many Communication Studies courses
investigate the impact of communication upon society, the major also provides a
solid foundation for graduate study in Communication and related disciplines
including Law, Business, and the Social Sciences.

As a supplement to their classroom work, students are encouraged to work with the
University’s FM stereo radio station, WALF, the student newspaper, Fiat Lux, or the
campus television station, AUTV, as well as complete an internship.

Requirements for the major
All students must complete a 24 credit hour core consisting of the following courses:
COMM 101  Introduction to Communication Studies 4
COMM 110  Mass Media and American Life 4
COMM 205  Introductory Newswriting and Reporting 4
COMM 301  Broadcasters, Advertisers, and Audiences 4
COMM 309  Persuasion: Reception and Responsibility 4
COMM 410  Communication Ethics 4

Additional Requirements
Take 20 credit hours of elective courses in Communication, Social Sciences (such as
Psychology or Political Science), Business (such as Management or Marketing), and
Humanities (such as English), chosen in consultation with an advisor. At least 12 of
these elective hours must be at the 300-400 level.

Total credit hours 44
### Requirements for the minor in Communication Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101</td>
<td>Introduction to Communication Studies</td>
<td>4</td>
</tr>
<tr>
<td>COMM 110</td>
<td>Mass Media and American Life</td>
<td>4</td>
</tr>
<tr>
<td>COMM 205</td>
<td>Introductory Newswriting and Reporting</td>
<td>4</td>
</tr>
<tr>
<td>COMM 301</td>
<td>Broadcasters, Advertisers, and Audiences</td>
<td>4</td>
</tr>
<tr>
<td>COMM 309</td>
<td>Persuasion: Reception and Responsibility</td>
<td>4</td>
</tr>
<tr>
<td>COMM 410</td>
<td>Communication Ethics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total credit hours** 24

### Comparative Cultures

The Comparative Cultures major attracts students who want to better understand themselves and the world around them. The major makes it possible for students to gain an appreciation of cultural pluralism by studying various cultures and elements of culture while acquiring the tools of analysis and interpretation. Students achieve an understanding of the general nature of human culture and religion as well as more specific knowledge of particular societies and/or religious traditions. The major emphasizes the analytical methodologies of the complementary disciplines of Cultural Anthropology and Religious Studies, fostering the cross-cultural and/or comparative study of such aspects of culture as myth, social organization, adaptive strategies, gender relations, kinship and descent, religious ritual, oral poetry, and visual and performing arts.

The curriculum includes core components (which should be completed early), elective courses and advanced study of a foreign language. It culminates in a major fieldwork project. Students are strongly encouraged to study for one or two semesters in a foreign culture.

### Requirements for Comparative Cultures Major

#### I. Core (16 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 110</td>
<td>Cultural Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 304</td>
<td>Language and Culture*</td>
<td>4</td>
</tr>
<tr>
<td>GLBS 495</td>
<td>Global Issues Seminar*</td>
<td>4</td>
</tr>
<tr>
<td>RLGS 105</td>
<td>Introduction to World Religions</td>
<td>4</td>
</tr>
</tbody>
</table>

#### II. Elective Courses (22 credit hours)

These courses are in the areas of Anthropology, Religious Studies and Art History of non-Eurocentric traditions. 16 credits must be 300-400 level. Up to 8 credits from other disciplines may be substituted (with advisor’s approval).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 200/300</td>
<td>Special Topics</td>
<td>1-4</td>
</tr>
<tr>
<td>ANTH 302</td>
<td>The Nacirema</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 303</td>
<td>Health and Culture*</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 305</td>
<td>Belize and the Caribbean</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 311</td>
<td>Nip, Tuck, Perm, Pierce, Tattoo, Embalm</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 312</td>
<td>Violence and Culture*</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 400</td>
<td>Special Problems in Anthropology</td>
<td>1-4</td>
</tr>
<tr>
<td>ANTH 450</td>
<td>Independent Study</td>
<td>1-4</td>
</tr>
<tr>
<td>ANTH 470</td>
<td>Fieldwork</td>
<td>2-4</td>
</tr>
<tr>
<td>ARTH 200/300/400</td>
<td>Special Topics*</td>
<td>1-4</td>
</tr>
<tr>
<td>ARTH 123</td>
<td>Art of China</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 126</td>
<td>Arts of Asia: Ancient to Modern</td>
<td>2</td>
</tr>
<tr>
<td>ARTH 141</td>
<td>20th Century Art</td>
<td>2</td>
</tr>
<tr>
<td>ARTH 304</td>
<td>Global Arts: Contemporary Asia</td>
<td>4</td>
</tr>
</tbody>
</table>
College of Liberal Arts and Sciences

ARTH 305     Arts of India     4
RLGS 200/300  Special Topics     1-4
RLGS 307     Myth, Ritual, and the Creative Process     4
RLGS 359     History of Chinese Thought     4
RLGS 369     Buddhism*     4

III. Language Study (up to 12 credit hours)
Minimum requirement is proficiency equal to university study through the second year.
Note: RLGS 105, ANTH 110 and two semesters of foreign language (16 credits in all) also fulfill current CLAS General Education requirements.

Total credit hours     38-50
*these courses have prerequisites; see course descriptions

Criminal Justice Studies

The interdisciplinary Criminal Justice Studies major attracts students who want to study the criminal justice system and key criminal justice actors, processes, and institutions. Courses in the major examine such topics as criminal behavior, social and governmental efforts at control, and practices developed to rehabilitate offenders. In general, students learn the application of social science findings in an effort to evaluate and analyze contemporary criminal justice issues. Courses in the major draw on a number of different disciplines in the social sciences, including Sociology and Political Science. The major also provides for practical experience through coursework that encourages students to apply classroom knowledge to actual situations in the field.

Requirements for Criminal Justice Studies major

I. Core courses (24 credit hours)
CRIM 340     Concepts of Penology*     4
CRIM 351     Seminar in Criminal Behavior*     4
POLS 232     Judicial Processes     2
POLS 417     American Civil Liberties     2
PSYC 342     Abnormal Psychology     4
SOCI 245     Crime and Society     4
SOCI 344     Sociology of Deviance     4

II. Electives (20 credit hours)
ANTH 312     Violence and Culture*     4
CRIM 322     Juvenile Justice*     2
CRIM 332     Focusing on Police*     2
CRIM 400     Special Topics in Criminal Justice     2-4
CRIM 450     Independent Study     1-4
CRIM 470     Field Work in Criminal Justice     4
ENVS 220     Introduction to Geographic Information Systems     4
PHIL 281     Ethics     4
POLS/SOCI 230     Introduction to Data Analysis and Statistics     4
POLS 242     Approaches to Law     4
POLS 273     Terrorism and International Security     4
POLS 313     State and Local Politics     4
POLS 316     American Constitutional Law and Politics*     4
POLS 355     Public Policy     4
PSYC 282     Social Psychology*     4
SOCI 235     Socialization*     4
SOCI 242     Social Problems*     4
SOCI 253  Social Welfare Institutions  4
SOCI 343  Race and Ethnicity  4
SOCI 431  Research Design and Strategies*  4
SPAN 301  Advanced Conversation and Composition  4

III. Institutes
In addition to completing the foregoing courses, the Criminal Justice Studies major is required to attend at least two institutes. These are normally offered once a year for a day to a day and a half. They deal with specific issues facing professionals in the criminal justice area.

Total credit hours  44

Note: Students may find that knowledge of Spanish is useful in the criminal justice field.
*these courses have prerequisites; see course descriptions

Requirements for Criminal Justice Studies minor
I. Core Courses (22 credit hours)
CRIM 340  Concepts in Penology*  4
POLS 110  American Politics  4
POLS 232  Judicial Process  2
SOCI 110  Introduction to Sociology  4
SOCI 245  Crime and Society  4
SOCI 344  Sociology of Deviance  4
Total credit hours  22
*these courses have prerequisites; see course descriptions

Dance
Alfred University’s Division of Performing Arts Dance Department offers students a rich and rewarding experience in the art of dance and dance making. It is open to students of all levels, regardless of experience or past training who want to include a dance practice in their academic experience. The Program encourages cross-disciplinary work in collaboration with visual art, sound design, music, performance art, and theatre – drawing from strengths unique and specific to Alfred University.

Those students who want to pursue deeper studies in dance can minor in dance. The dance minor is a composition based program that develops artistry in creating site specific performance, contemporary dance, and dance theater. Students can take classes in composition, improvisation, site specific composition, site specific performance, contemporary dance, jazz, dance history, repertory, and contact improvisation, as well as special topics classes.

The Marlin and Ginger Miller Dance Residency Program brings nationally acclaimed dance companies, choreographers, and artists to AU, offering phenomenal opportunities for students to work and learn with artists of the highest caliber.

Beyond the classroom, AU has a thriving student dance culture with a variety of dance clubs such as Middle Eastern Dance, Alfred to Asia, Swing Dance, and Alfred Steppas. Auditions for all productions and performance groups are open to all students, regardless of academic major or experience.

Requirements for the Dance minor:
Core Courses
DANC 120  Fundamentals of Dance  2
DANC 222  Modern I  2
DANC 230  Improvisation/Composition I  3
DANC 211  Dance History  4
### College of Liberal Arts and Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 270</td>
<td>Alfred University Dance Theatre (taken twice)</td>
<td>4</td>
</tr>
<tr>
<td>DANC 330</td>
<td>Improvisation/Composition II</td>
<td>3</td>
</tr>
</tbody>
</table>

*or* DANC 331 Site Specific Composition (can be an elective)

**Electives in Dance (select 6 credit hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 200</td>
<td>Special Topics</td>
<td>1-4</td>
</tr>
<tr>
<td>DANC 221/321</td>
<td>Ballet I and II</td>
<td>2</td>
</tr>
<tr>
<td>DANC 223/323</td>
<td>Jazz Dance I and II</td>
<td>2</td>
</tr>
<tr>
<td>DANC 224</td>
<td>Contact Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>DANC 322</td>
<td>Modern Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DANC 340</td>
<td>New and Existing Repertory</td>
<td>3</td>
</tr>
<tr>
<td>DANC 450</td>
<td>Independent Study</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**Total credit hours** 24

*Note: If DANC 120 is waived because of an equivalent background in dance, the minor requires 22 credit hours.*

### Economics

The primary objective of the economics minor is to study economic problems, theories, and policies within the context of the liberal arts educational tradition.

**Requirements for a minor in Economics:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 460</td>
<td>Seminar in Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 300+</td>
<td>Upper-level Economics Course</td>
<td>3</td>
</tr>
<tr>
<td>ECON 300+</td>
<td>Upper-level Economics Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credit hours** 16

### English

The study of English fosters critical thought and imaginative insight. It also heightens an awareness and appreciation of the power, beauty, and passion of the written word. Class discussions increase students’ opportunity, in Thoreau’s words, to “live deliberately.”

The mission of the Division of English is to offer instruction in the western canon and non-canonical and world literatures, integrating these studies with creative writing courses in poetry, fiction, nonfiction and playwriting. The Division of English is dedicated to the teaching of analysis, critical reflection and creative thought, problem solving, and communication within the context of a liberal arts education in order to meet the complex needs of a diverse university community.

We encourage students to recognize the intellectual, social, and historical contexts of human experience, demonstrating how we might question and articulate the values, ideologies, and assumptions inherent in any human enterprise. We are also committed to teaching all university students the analytic writing skills they need in order to articulate a cultural literacy in an ever-shrinking, diverse world.

The major serves both the student who regards the study of English as a vital component of a liberal arts education and the future critic and writer.
English majors graduate to pursue careers in teaching, writing, advertising, public relations, publishing, college administration, business, and related fields, or they go on to graduate schools in literature, writing, communications, journalism, library science, law, and business.

English majors are encouraged to assume responsibility for the direction of their education by developing a course of study based on their goals. From the numerous courses offered (see listings in the back of catalog), a total of 44 semester hours in English is required.

**Requirements for the English Major**

One 200-level literature class ("A" Area of Knowledge) 4
ENGL 325 Survey of British Literature I 3
ENGL 326 Survey of British Literature II 3
ENGL 327 Survey of American Literature 4
ENGL 328 The Language of Literary Art 4
26 credits of 400-level coursework in writing and literature 26

**Total Credit Hours** 44

Note: ENGL 450-Independent Study does not count toward the major. ENGL 496-English Honors Thesis may be counted toward the major. Also, the Division of English strongly recommends that English majors complete the intermediate level of a foreign language. Students may count one literature course (300-level or above) taken in a foreign language towards the English major.

**Minors**

The English Division offers minors in Literature and in Writing.

**Requirements for a minor in Literature:**

One 200-level literature class ("A" Area of Knowledge) 4
ENGL 325/326 Surveys of British Literature I & II 4
or ENGL 327 Survey of American Literature 4
10-12 credits of 400-level coursework in writing and literature 10-12

**Total Credit Hours** 20

Note: ENGL 450-Independent Study does not count toward the minor in Literature.

**Requirements for a minor in Writing:**

One 200-level creative writing class 4
ENGL 328 The Language of Literary Art 4
12 credits selected from 400-level writing courses 12

**Total Credit Hours** 20

Note: ENGL 450-Independent Study does not count toward the minor in Writing.

**Environmental Studies**

Since technological advances in our society have been accompanied by many life-threatening effects upon our physical surroundings, it has become a good citizen’s responsibility to understand major environmental concepts. Some of us will pursue careers on behalf of the environment, trying to determine our species’ suitable place within it.

The Environmental Studies major offers a multidisciplinary background and encourages looking at environmental problems from several points of view. Environmental projects and field experiences augment classroom learning. Faculty members are drawn from biology, geology, geography, mathematics, psychology, chemistry, political science, economics, and sociology.

Students have the option of choosing an Environmental Studies major with either a natural science, social science, or environmental science emphasis. Environmental
Studies majors strongly interested in environmental careers or graduate training are encouraged to also complete requirements for a full major or minor in a traditional academic discipline. Many of the same courses will meet the requirements of both majors.

The primary missions of the Division of Environmental Studies at Alfred University are to educate our students and to engage in research that furthers our understanding of the natural environment. These two activities are mutually supportive.

We are a Division of Environmental Studies, so our approach toward teaching and research is to integrate the several disciplines in the natural and social sciences and humanities that make up the field. We practice the team approach taken in modern environmental problem solving in both teaching and research. Our students learn to tackle environmental problems as a team of experts, each contributing his/her own specialty to the group effort.

We use contemporary methods of “learning by doing” and team-teaching to provide our students with a multi-faceted, practical foundation that they can build on with advanced study or work experience. We strive to provide the latest technologies for our students, and orient our curriculum in such a way as to give them experience using contemporary procedures, approaches, techniques, and instruments. We expect our students to graduate with a good understanding of theoretical aspects of our field and the ability to apply that understanding to practical situations. Our goal is to prepare students for rigorous graduate programs and/or to be successful in a competitive job market.

Our faculty engage in scholarly activities that lead to a better understanding of the environment and the effects that humans have on the environment. We often work on research projects in teams and expect our students to be involved in research with us whenever possible, depending on the nature of specific research projects.

When appropriate, we use our expertise to benefit the local community and undertake research projects with our students that will have a positive impact on the local environment.

Requirements for the major – Natural Science Emphasis

A. Core requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 101</td>
<td>Environmental Studies I – Natural Science</td>
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<tr>
<td>ENVS 102</td>
<td>Environmental Studies II – Social Science</td>
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<tr>
<td>ENVS 205</td>
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<td>ENVS 206</td>
<td>Fieldcraft-Outdoor Proficiency</td>
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<td>ENVS 220</td>
<td>Introduction to GIS</td>
<td>4</td>
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<tr>
<td>ENVS 240</td>
<td>Environmental Research Procedures I</td>
<td>3</td>
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<tr>
<td>ENVS 241</td>
<td>Environmental Research Procedures II</td>
<td>3</td>
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<tr>
<td>ENVS 360</td>
<td>Junior Seminar</td>
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<tr>
<td>ENVS 440</td>
<td>Environmental Research Planning</td>
<td>2</td>
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<tr>
<td>ENVS 490</td>
<td>Senior Seminar</td>
<td>2</td>
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<tr>
<td>ENVS 499</td>
<td>Senior Year Project</td>
<td>2-4</td>
</tr>
<tr>
<td>ENVS 415</td>
<td>Natural Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>POLS 214</td>
<td>Politics and Environment</td>
<td>2</td>
</tr>
</tbody>
</table>

B. Breadth requirements

One course from among the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 150</td>
<td>Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
</tbody>
</table>
GEOL 101 This Dynamic Earth 4
PHYS 111 Introductory General Physics I 4
or PHYS 125 Physics I 4

*Two courses from among the following:*

ANTH 110 Cultural Anthropology 4
ANTH 310 Cultural Anthropology and Disease 4
ECON 201 Principles of Microeconomics 4
ECON 312 Environmental Economics 3
ENGL 293 Writers Gone Wild: Literature and the Environment 4
ENVS 201 Environmentalism 2
ENVS 204 Environmental History 2
ENVS 245 Spirituality and the Environment 2-4
HIST 308 Americans and Their Environment 4
PHIL 281 Ethics 4
POLS 345 International Environmental Politics 4
POLS 411 Bureaucracy 4

**C. Natural Science emphasis electives**

*Three courses (at least 11 credits) from among those listed, with no more than two 100-level courses.*

BIOL 322 Botany 4
BIOL 354 Ecology 4
BIOL 356 Aquatic Ecology 4
CHEM 106 General Chemistry II 4
CHEM 310 Basic Organic Chemistry 3
or CHEM 315 Organic Chemistry I 4
CHEM 316 Organic Chemistry II 4
CHEM 321 Introduction to Analytical Chemistry 4
ENVS 300 Special Topics 1-4
ENVS 320 Advanced GIS Applications 4
ENVS 351 Environmental Biogeochemistry 4
ENVS 357 Conservation Biology 4
GEOL 201 Surficial Geology 4
GEOL 301 Structural Geology 4
GEOL 307 Stratigraphy and Sedimentation 4
GEOL 464 Hydrogeology 4
PHYS 112 Introductory General Physics II 4
or PHYS 126 Physics II 4

**Requirements for the major – Social Science Emphasis**

**A. Core requirements**

ENVS 101 Environmental Studies I – Natural Science 4
ENVS 102 Environmental Studies II – Social Science 4
ENVS 205 Environmental Data Analysis 4
or POLS/SOCI 230 Introductory Data Analysis and Statistics 4
or PSYC 220 Psychological Methods & Statistics 4
or BUSI 113 Business Statistics 4
ENVS 206 Fieldcraft – Outdoor Proficiency 4
ENVS 220 Introduction to GIS 4
ENVS 240 Environmental Research Procedures I 3
ENVS 241 Environmental Research Procedures II 3
ENVS 360 Junior Seminar 1
ENVS 440 Environmental Research Planning 2
ENVS 490 Senior Seminar 2
ENVS 499 Senior Year Project 2
ENVS 415  Natural Resources Management  3  
POLS 214  Politics and Environment  2  

**B. Breadth requirements**  
*One course from among the following:*

- BIOL 150  Biological Foundations  4  
- CHEM 105  General Chemistry I  4  
- GEOL 101  This Dynamic Earth  4  
- PHYS 111  Introductory General Physics I  4  
  *or* PHYS 125  Physics I  4  

**C. Social Science emphasis electives**  
*16 credits from among the following:*

- ANTH 110  Cultural Anthropology  4  
- ANTH 310  Cultural Anthropology and Disease  4  
- ECON 201  Principles of Microeconomics  4  
- ECON 202  Principles of Macroeconomics  3  
- ECON 312  Environmental Economics  3  
- ENGL 293  Writers Gone Wild: Literature and the Environment  4  
- ENVS 201  Environmentalism  2  
- ENVS 204  Environmental History  2  
- ENVS 245  Spirituality and the Environment  2-4  
- ENVS 320  Advanced GIS Applications  4  
- HIST 308  Americans and Their Environment  4  
- PHIL 281  Ethics  4  
- POLS 313  State and Local Politics  4  
- POLS 411  Bureaucracy  4  
- PSYC 282  Social Psychology  4  

**Requirements for the major – Environmental Science Track**  

**A. Core requirements**  

- ENVS 101  Environmental Studies I – Natural Science  4  
- ENVS 102  Environmental Studies II – Social Science  4  
- ENVS 205  Environmental Data Analysis  4  
- ENVS 206  Fieldcraft – Outdoor Proficiency  4  
- ENVS 220  Introduction to GIS  4  
- ENVS 240  Environmental Research Procedures I  3  
- ENVS 241  Environmental Research Procedures II  3  
- ENVS 360  Junior Seminar  1  
- ENVS 440  Environmental Research Planning  2  
- ENVS 490  Senior Seminar  2  
- ENVS 499  Senior Year Project  2  
- MATH 151  Calculus I  4  

**B. Breadth requirements**  
*Four courses from the following:*

- BIOL 150  Biological Foundations  4  
- CHEM 105  General Chemistry I  4  
- CHEM 106  General Chemistry II  4  
- GEOL 101  This Dynamic Earth  4  
- MATH 152  Calculus II  4  
- PHYS 111  Introductory General Physics I  4  
  *or* PHYS 125  Physics I  4  
- PHYS 112  Introductory General Physics II  4  
  *or* PHYS 126  Physics II  4  

**C. Depth requirements**  
*Three Courses (totaling at least 11 credit hours) from the following:*
BIOL 322  Botany      4  
BIOL 354  Ecology      4  
BIOL 356  Aquatic Ecology     4  
CHEM 310  Basic Organic Chemistry    3  
CHM 315  Organic Chemistry     4  
CHEM 321  Introduction to Analytical Chemistry     4  
ENVS 300  Special Topics     1-4  
ENVS 357  Conservation Biology     4  
ENVS 320  Advanced GIS Applications     4  
ENVS 351  Environmental Biogeochemistry     4  
GEOL 201  Surficial Geology     4  
GEOL 464  Hydrogeology     4  

Requirements for the Environmental Studies minor
ENVS 101  Environmental Studies I – Natural Science     4  
ENVS 102  Environmental Studies II – Social Science     4  
ENVS 240  Environmental Research Procedures I     3  
ENVS 241  Environmental Research Procedures II     3  
Plus, 8 credits of electives, selected by the student and minor advisor, chosen from the lists of natural science and social science electives (see above) and integrated to meet the student’s objectives in environmental study.

Total credit hours  22

Note: Nearby Alfred State College offers a number of applied courses in a variety of environmental areas. With permission, selections from among these offerings may be taken for transfer credit at Alfred University. Advisors can assist in such course selections; in some cases these may substitute for courses listed above.

Equestrian Studies

Students can combine a major from any division of the University with a minor in Equestrian Studies in order to meet their own personal goals and vision. For example, combining Equestrian Studies with Business Administration or Marketing enables a student to run a training operation or manage an equine facility. The Alfred University Equestrian Program is designed to offer students the opportunity to define their own needs and goals, and then create a career plan that assists them in achieving it.

Requirements for the minor in Equestrian Studies
The minor requires a total of 16 credit hours. Choose at least 8 credits of theory courses and 4 credits of practical (activity) courses. The remaining 4 credits may be selected from either category.

Theory Courses
EQUS 201  The Art and Theory of Equitation     4  
EQUS 205  Introduction to Equine Science     4  
EQUS 212  Methods of Teaching     4  
EQUS 215  Equine Business Management     4  
EQUS 216  Horse Show Management     2  
EQUS 218  Judging Horse Shows     4  
EQUS 220  History of the Horse     4  
EQUS 223  Hunter and Jumper Course Design     2  
EQUS 225  Equine Nutrition     2  
EQUS 226  Caring for the Equine Anatomy     2  
EQUS 200  Special Topics (theory/classroom topics)     1-4  
EQUS 228  The Equine Industry in Ireland     2
College of Liberal Arts and Sciences

Activity Courses (2 credit hours each)
EQUS 100 Special Topics (activity course for PE credit)
EQUS 101-104 English Riding, Levels I, II, III, IV
EQUS 105 Introduction to Dressage
EQUS 107 Combined Training
EQUS 110-113 Western Riding, Levels I, II, III, IV
EQUS 115 Dressage II
EQUS 118 Introduction to Reining
EQUS 119 Introduction to Reined Cowhorse
EQUS 120-122 Driving I, II, III

General Science

Requirements for the major
Students must complete the breadth and depth requirements:

I. Breadth
Take all of these courses:
BIOL 150 Biological Foundations 4
CHEM 105 General Chemistry I 4
CHEM 106 General Chemistry II 4
ENVS 101 Environmental Studies I - Natural Science 4
MATH 151 Calculus I 4
MATH 152 Calculus II 4
Take two of the following:
GEOL 101 This Dynamic Earth 4
GEOL 104 Earth and Life Through Time 4
GEOL 201 Surficial Geology 4
Take one of the following sequences of courses
PHYS 111/112 Introductory General Physics I and II (4 credits each) 8
or
PHYS 125/126 Physics I and II (4 credits each) 8

II. Depth
A minimum of 10 credits at the 300 level or above from the one of the disciplines represented above.
Total Credit Hours 40

Geology

Studying geology helps students to gain an appreciation for their planet, its history, and the processes which operate within it. Students may select courses for enjoyment, choose courses in conjunction with other studies, or take courses in preparation for careers in geology. The major provides a background useful for employment or further studies in geology or a related field such as environmental studies, physical geography, planning, engineering, law or business. A geology major includes an introductory level course; required courses in structural geology, mineralogy and petrology; advanced studies; and field experience.
The Department of Geology’s mission is to provide students in all geoscience courses (major or non-major) with an appreciation and understanding of the earth’s physical environment (geosphere, hydrosphere, atmosphere) and the interconnectedness between these systems. Because there are many aspects of the earth and its history that cannot be directly observed, part of our mission is to instill in our students an understanding of how the present models explaining the structure, composition, and history of the earth were derived.

Students in geology courses will gain basic knowledge and skills that will allow them to pursue professions in a variety of areas of geoscience, including teaching, graduate school, industry, government, and private consulting.

Requirements for the major

Choose one introductory course from:

GEOL 101  This Dynamic Earth
GEOL 103  Earthquakes and Volcanoes
GEOL 104  Earth and Life Through Time
GEOL 106  Elementary Oceanography

and take the following four courses:

GEOL 201  Surficial Geology       4
GEOL 301  Structural Geology      4
GEOL 302  Mineralogy and Petrology 4
GEOL 464  Hydrogeology

or ENVS 351  Environmental Biogeochemistry  4

Total Credit Hours 20

General Geology Track:

In addition to the above 20 credit hours required for all tracks, take:

ENVS 205  Environmental Data Analysis  4
GEOL 206  Fieldcraft–Outdoor Proficiency  4
ENVS 220  Introduction to Geographic Information Systems  4

and 8 credits selected from the following:

ENVS 320  Advanced GIS Applications  4
ENVS 351  Environmental Biogeochemistry (if not used above)  4
GEOL 307  Stratigraphy and Sedimentation  4
GEOL 408  Tectonics  4
GEOL 414  Geophysics  4
GEOL 464  Hydrogeology (if not used above)  4

Total Credit Hours for General Track Geology Major 40

Planetary Science Track

In addition to the above 20 credit hours required for all tracks, take:

ASTR 302  Planetary Science  2
CHEM 105  General Chemistry I  4
CHEM 106  General Chemistry II  4
MATH 151  Calculus I  4
MATH 152  Calculus II  4

and 8 credits selected from the following:

CEMS 235  Thermodynamics of Materials  4
CEMS 251  Mechanics of Materials  3
CHEM 343  Physical Chemistry I  3
CHEM 346  Physical Chemistry II  3
GEOL 408  Tectonics  4
GEOL 414  Geophysics  4
GEOL 464  Hydrogeology (if not used above)  4
Earth Science Education Track
In addition to the above 20 credit hours required for all tracks, take:
MATH 102 Mathematics for Early Childhood/Childhood Teachers 4
GEOL 206 Fieldcraft–Outdoor Proficiency 4
and 8 credits selected from the following:
ASTR 103 Introductory Astronomy 4
ASTR 107 Elementary Astronomy Lab 2
ENVS 220 Introduction to Geographic Information Systems 4
ENVS 320 Advanced GIS Applications 4
ENVS 351 Environmental Biogeochemistry (if not used above) 4
GEOL 307 Stratigraphy and Sedimentation 4
GEOL 408 Tectonics 4
GEOL 464 Hydrogeology (if not used above) 4
SCIE 110 Weather Elements 2

Total Credit Hours for Earth Science Education Track Geology Major 36
*Other field activities may be used to fulfill this requirement. Arrangements should be made prior to the end of the junior year.

Requirements for the minor in Geology
A Geology minor may be obtained by completing (with grades of “C” or better), one 100-level geology course and 16 credit hours of upper level geology courses. These may include CEMS 214 or CEMS 215. Total credit hours required: 20.

Gerontology

Our nation is “graying” at an alarming rate. In 2004, seniors aged 65+ comprised about 12% of the U.S. population, estimated to be around 36.3 million people. By 2050, this number will jump to about 21% or 87 million individuals, so that 1 out of every 5 Americans will be 65 years old or older!

As these generations retire, there will be an increased demand for professionals in a wide variety of fields who understand issues related to the aging process. Service for the aging is already one of the fastest growing job markets.

Gerontology is the study of aging, including the biological, psychological, and sociological aspects of the aging process. It includes the study of changes in adults as they age, the ways that society changes with an aging population, and the ways we apply this information to programs and policies for older adults.

The Gerontology major at AU will help provide you with the skills and background needed in today’s job market. In our program, you will study aging from the psychological, sociological, biological, and political perspectives, and learn about current “hot” topics facing our country, such as health care, Social Security, and the impact of an aging population. Our multiple community connections will provide you with opportunities to gain hands-on experience through supervised internships.

Requirements for the major
Complete all of the following:
GERO 118 Introduction to Adult Development and Aging 4
BIOL 119 Physiology of Aging 4
PSYC 210 Communication and Counseling Skills 2
PSYC 371 The Psychology of Death and Dying 4
GERO 429 Cognition and Aging 2
GERO 485  Gerontology Internship     4  
SOCI 348  Sociology of Families     4  

Select one course from each of the following three groups:  
PSYC 220  Psychological Methods and Statistics     4  
SOCI 230  Intro to Data Analysis and Statistics    4  

SOCI 253  Social Welfare Institutions     4  
POLS 355  Public Policy                    4  
PSYC 322  Health Psychology                4  
GERO 300  Special Topics in Gerontology     4  
GERO 450  Independent Study                2-4  
GERO 497  Senior Seminar in Gerontology    2-4  
SOCI 470  Field Work                       2-4  

Total credit hours 36

Requirements for the minor in Gerontology  
Complete all of the following: 
GERO 118  Introduction to Adult Development and Aging     4  
GERO 429  Cognition and Aging                     2  
GERO 485  Gerontology Internship                  4  

Complete one course from each of the following four groups:  
BIOL 119  Physiology of Aging                    4  
PSYC 322  Health Psychology                      2-4  

PSYC 210  Communication and Counseling Skills    2  
PSYC 371  The Psychology of Death and Dying      4  
GERO 300  Special Topics in Gerontology          2-4  
GERO 497  Senior Seminar in Gerontology           2  
SOCI 253  Social Welfare Institutions           4  
SOCI 348  Sociology of Families                  4  
POLS 355  Public Policy                           4  
PSYC 450  Independent Study                       2-4  

Total credit hours 20

Global Studies

The interdisciplinary Global Studies major fosters international awareness of the variety, complexity, and interconnectedness of modern populations ranging from ethnic groups to nation-states by exposing students to diverse disciplinary perspectives and encouraging international study abroad experience. The major includes a required Introduction to Global Studies, a broad selection of core courses in contemporary global issues across the curriculum, advanced study in foreign language and a capstone global issues seminar emphasizing original research based on study abroad experience. Students have a choice of three tracks: General Global Studies; International Relations; or International Business.
Requirements for Global Studies major

I. Foundation Courses (Required)
Modern Languages: second year competency (up to 8 hours)
Study Abroad: one or two semesters recommended
- OCST 301 Study Abroad Preparation and Review 2
- ANTH 110 Cultural Anthropology 4
- ECON 201 Principles of Microeconomics 4
  or ECON 202 Principles of Macroeconomics 3
- GLBS 101 Introduction to Global Studies 4
- GLBS 495 Global Issues Seminar* 4
- HIST 107 The World in the 20th Century 4
- POLS 271 World Politics 4

II. Tracks and Electives
Complete one of three tracks:
1. General Global Studies Track: Choose 16 elective credits from at least two of the Categories 1-6, including at least 2 courses at the 300 or 400 level.
2. International Relations Track: Choose 16 elective credits from the Categories 1, 2, 3, and 4, including at least 2 courses at the 300 or 400 level.
3. International Business Track: Choose 15 elective credits from Category 3, including at least 2 courses at the 300 or 400 level.

Categories of Electives
1. History
   - HIST 111 Modern Western History 4
   - HIST 151 The Rise and Fall of Iberia, 1450-1950 4
   - HIST 300 Topics in History (upon approval by Director) 1-4
   - HIST 301 America in War during the 20th Century 4
   - HIST 302 The Vietnam War 4
   - HIST 316 Twentieth-Century Europe 4
   - HIST 321 The History of Fascism 4
   - HIST 322 Churchill, Stalin, Roosevelt, Hitler 2
   - HIST/GLBS 323 The History of Stuff 4
   - HIST 325 Imperialism in Africa and Asia 4
   - HIST 326 The Modern Middle East and North Africa 4
   - HIST 327 Propaganda: Persuasion, Art and War 4
   - HIST/PHIL 328 Visions of Modernity: Art, Politics and Ideas 4
   - HIST 371 American Diplomacy, 1763-1898 2
   - HIST 372 America as a World Power, 1898-Present 4
   - HIST 383 The Nazi Holocaust 2
   - HIST 387 Modern France 4

2. Political Science
   - POLS 251 European Politics 4
   - POLS 253 Dictatorship and Democracy 4
   - POLS 273 Terrorism and International Security 4
   - POLS 282 Latin American Politics 4
   - POLS 200/300/400 Special Topics (upon approval) 1-4

3. Economics and Business
   - ECON 201 Principles of Microeconomics 4
   - ECON 202 Principles of Macroeconomics 3
   - FIN 458 International Financial Management* 3
   - BUSI 457 International Business* 3
   - MKTG 489 International Marketing* 3
   - ECON/BUSI/ FIN 200/300/400 Special Topics (upon approval) 3
4. Cultural Anthropology/Interdisciplinary Studies

- ANTH 303 Health and Culture* 4
- ANTH 304 Language and Culture* 4
- ANTH 312 Violence and Culture* 4
- ANTH 470 Field Work* 2-4
- ANTH 200/300/400 Special Topics in Anthropology 1-4
- FREN 210 Global Perspective: Paris 2
- FREN 313 French-Speaking Africa 4
- FREN 316 Contemporary French Culture* 4
- GRMN 316 German History and Culture* 4
- SPAN 210 Pilgrims and Tourists Santiago 4
- SPAN 212 Buenos Aires: Literature and the Arts 2
- WGST200/300/400 Topics in Women's* and Gender Studies (upon approval) 1-4

5. Art/Literature/Communications

- ARTH 121 Wild Spirits and Divine Kings 2
- ARTH 123 Art of China 2
- ARTH 124 Native American Arts: Spirited Materials and Tech. 2
- ARTH 300-400 Topics in Art History (upon approval) 2-4
- ARTH 301 African Art I 4
- ARTH 302 African Art II 4
- ARTH 363 Ceramics and Cultural Identity: Global Traditions & Innovations 4
- COMM 300/400 Topics in Communication 1-4
- ENGL 251 World Literature I 4
- ENGL 252 Contemporary World Literature 4
- FREN 310 Reading French Texts* 4
- FREN 312 French Literature II* 4
- IART 300 Studio Topics in Interdisciplinary Art 1-4
- IART 300 Special Topics in Interdisciplinary Art 1-4
- MUSC 211 World Music 4
- SPAN 312 Peninsular Culture and Literature II: 19th - 20th Century 4
- SPAN 316 Latin American Culture and Literature II 4
- SPAN 400 Topics in Hispanic Literature 1-4
- THEA 210 The Performing Arts: A Global Perspective 4

6. Philosophy and Religion

- RLGS 105 Introduction to World Religions 4
- RLGS 252 Judaism and Islam 4
- RLGS 265 Asian Religions 4

Total credit hours 48-50

*these courses have prerequisites; see course descriptions

Requirements for Global Studies minor

I. Foundation Courses (required)
Modern Languages: second year competency required
Study Abroad: at least one semester recommended
GLBS 101 Intro to Global Studies 4

II. Electives
After consultation with the Global Studies advisor/program director, choose 2 of these Global Studies core courses:
- ANTH 110 Cultural Anthropology 4
- HIST 107 The World in the 20th Century 4
- POLS 271 World Politics 4

Eight additional credits at the 300 or 400 level from the Global Studies electives

Total credit hours 20
History

“Bunk,” Henry Ford called history. “A pack of tricks we play on the dead,” said the French writer Voltaire. And yet we all know that a society understands what it is and what it wants to be based on an understanding of what it has been. Our history shapes our identity.

Alfred University’s history program offers a thorough grounding in not only American society, but European and some non-Western societies as well. It covers eras of war and peace, and reform and revolution. It approaches the past by analyzing political, cultural, social, intellectual and military developments.

The program addresses the needs of both the student who regards historical study as a vital component of a general liberal arts education and the student who plans to become a professional historian. Recent graduates have gone into law, business, teaching, government service, professional sports, and advertising. We open doors for our history majors.

Requirements for the major
From the numerous courses offered (see listing and course descriptions on p. 225) a total of 34 credit hours in history is required. Of these hours, 26 must be drawn from the 300 or 400 level, and the student must complete eight hours in American and 8 hours in non-American history at the 300 or 400 level.

Total credit hours 34

Requirements for the minor
The minor in history requires completion of two General Education history courses, plus 12 credits of history at the 300 or 400 level.

Total credit hours 20

Interdisciplinary Art

The major in Interdisciplinary Art, leading to the BA degree in the College of Liberal Arts and Sciences, combines studio work in the arts with studies in art history, art theory, and cultural criticism. The program draws faculty from the College of Liberal Arts & Sciences and from the School of Art & Design in the NYS College of Ceramics.

Interdisciplinary Art majors develop technical and conceptual skills in the visual arts through studio work, while also learning how philosophical and historical perspectives can deepen and enrich the process and purposes of artmaking. The BA program is distinguished from the BFA program in the School of Art and Design by its broad grounding in the general education program of the College of Liberal Arts and Sciences leading to the major in interdisciplinary art with a concentration in visual arts, art history/theory, or performing arts/design. There is no portfolio requirement for admission to the Interdisciplinary Art program.

The student who wishes to prepare for a career in art therapy or in art education should consult an Advisor in the Interdisciplinary Art major for a proper selection of courses in Psychology or in Education. Recent graduates have opened their own studios, are working in museums, galleries, and design firms, are teaching art in secondary schools, and have entered graduate programs in the areas of art, art therapy, curatorial practice, and conservation.
Requirements for the major:

Core requirements

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>IART 101-104</td>
<td>Interdisciplinary Art I-IV</td>
<td>16</td>
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<tr>
<td>PHIL 283</td>
<td>Philosophy of the Arts I</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 100-level</td>
<td>Art History</td>
<td>6</td>
</tr>
<tr>
<td>IART 460</td>
<td>Interdisciplinary Art Seminar</td>
<td>4</td>
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</tbody>
</table>

Total core requirements 30

In addition to the core requirements, students must complete one of the three concentrations below:

I. Visual Arts Concentration

- Visual studio electives (12 must be 300 level) 24
- Theory elective 4
- Art History elective 4

II. Art History and Theory Concentration

- Art History electives 16
- Theory electives 8
- Additional Art History/Theory electives 8
  or 8 studio credits, with permission of advisor

III. Performing Arts/Design Concentration

1. Studio Electives in THEA, DANC, MUSC, ART* 24
2. Theory Elective* 7-8

Total credit hours for the Major 61-62

*Studio and Theory Elective: Should be chosen in consultation with advisor to form a unified curriculum in Performance. In Music, only 100 level courses count toward requirement.

Requirements for the Interdisciplinary Art minor

The Interdisciplinary Art minor consists of 20 credit hours. Students must complete the 8-credit core and one 12-credit concentration.

Core:

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<tr>
<td>IART 101</td>
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<td>IART 102</td>
<td>Interdisciplinary Art II</td>
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Visual Arts Concentration:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>IART 103</td>
<td>Interdisciplinary Art III*</td>
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<td>IART 104</td>
<td>Interdisciplinary Art IV*</td>
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</tr>
<tr>
<td>Art History</td>
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</tbody>
</table>

or PHIL 283  Philosophy of the Arts 4

*with permission of advisor, other art studios may be substituted

Performing Arts/Design Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IART 103</td>
<td>Interdisciplinary Art III*</td>
<td>4</td>
</tr>
<tr>
<td>IART 104</td>
<td>Interdisciplinary Art IV*</td>
<td>4</td>
</tr>
<tr>
<td>Art History</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

or DANC 211  Dance History 4

or PHIL 283  Philosophy of the Arts 4

*with permission of advisor, courses in Lighting/Costume/Scenic Design, Directing/Acting/Improv Theatre, Dance or Music may be substituted.

Art Theory/History Concentration

Courses in Art Theory and/or Art History 12

Total credit hours 20
Mathematics

The mathematics program serves a variety of purposes:

- maintaining a vigorous and flexible program for mathematics majors
- providing the necessary mathematical foundations for engineering and science students
- offering an introduction to modern quantitative methods for students of management, economics, and the social sciences

The mathematics major gives the student a sound foundation in modern mathematics and its applications. The major is quite flexible, allowing for emphasis on pure or applied mathematics. In recent years mathematics majors have found excellent placement in a number of fields, including actuarial, computer applications and Ph.D. study.

Requirements for the major in Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 271</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 281</td>
<td>Foundations of Higher Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 481</td>
<td>Modern Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 491</td>
<td>Advanced Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

plus 6 credit hours in mathematics courses numbered above 240

Total credit hours: 37

Most students follow one of these three options:

Business Option

The Business Option is for students preparing for a mathematics-oriented career in the business world. This option emphasizes statistical and decision-making techniques. Students are encouraged to take various business courses as electives, along with the following mathematics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 351</td>
<td>Introduction to Operations Research</td>
<td>4</td>
</tr>
<tr>
<td>MATH 381</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Scientific Option

The Scientific Option emphasizes the application of mathematics to the physical sciences. Interested students are advised to take science courses, such as physics, as electives, as well as the following mathematics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 381</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 401</td>
<td>Advanced Engineering Mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

Middle Childhood/Adolescence Education Option

This option is for students who plan a middle school or high school teaching career. In addition to the required Education program, students must take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 381</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 461</td>
<td>Geometry</td>
<td>4</td>
</tr>
</tbody>
</table>

Requirements for the major in Mathematics with Actuarial Science

The B.S. degree in mathematics with a concentration in actuarial science prepares students to for the first two actuarial exams while also preparing them to enter a professional working environment. In addition to passing the actuarial exams, the Society of Actuaries also requires actuaries the completion of approved coursework in three areas: economics, corporate finance, and applied statistical methods.
Those requirements are satisfied through the coursework in this major, the specific courses that satisfy the requirements are listed on the society of actuaries webpage.

Take these courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 156</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 205</td>
<td>Student Managed Investment Fund</td>
<td>1</td>
</tr>
<tr>
<td>FIN 206</td>
<td>Student Managed Investment Fund Lab</td>
<td>1</td>
</tr>
<tr>
<td>FIN 348</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 271</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 281</td>
<td>Foundations of Higher Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 351</td>
<td>Introduction to Operations Research</td>
<td>4</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 381</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 382</td>
<td>Actuarial Exam Preparation</td>
<td>1</td>
</tr>
<tr>
<td>MATH 391</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>MATH 481</td>
<td>Modern Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 491</td>
<td>Advanced Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total credit hours** 65

**Requirements for the Mathematics minor**

The minor in mathematics requires 22 credit hours of mathematics courses numbered 151 and above. It must include MATH 253 and at least one of these courses: MATH 351, MATH 371, MATH 401, MATH 481, MATH 491, MATH 421 and at least one other MATH course numbered 300 or above. Courses should be selected in consultation with the mathematics minor advisor.

**Total credit hours** 22

**Requirements for the Computer Science minor**

The minor in Computer Science requires 5 courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 156</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 157</td>
<td>Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 205</td>
<td>Introduction to MySQL Programming</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 331</td>
<td>LAMP Server Administration</td>
<td>4</td>
</tr>
<tr>
<td>RNEW 303</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total credit hours** 20

**Modern Languages**

An increasing number of careers demand proficiency in a second language. More students are choosing to study modern languages for professional enhancement every year. Others select foreign language study to broaden their intellectual horizons, to enjoy the literature of other countries and times, or to be able to travel with greater independence. Students in the College of Liberal Arts and Sciences are required to successfully complete the second semester of the first year of a foreign language or pass the placement exam. Students who plan to seek certification as foreign language teachers should consult the chair of the Education Division.
The Modern Languages Division offers majors in Foreign Language and Culture Studies (concentration in French) and in Spanish as well as minors in French and Spanish.

**Foreign Language and Culture Studies with a Concentration in French**
Foreign Language and Culture Studies with a concentration in French is an interdisciplinary major that requires 16 credits of upper-level French courses, an intermediate level in a second foreign language, and selection of courses in related fields such as French and Francophone history, art history, global studies or linguistics.

**Requirements for the major**
Students must take at least 20 credits taught in French. At least 20 credits for the major must be taken on the Alfred University campus.

**Core course**
*FREN 302* Advanced French Grammar and Composition I

**Major level French courses**
(FREN 202 or above or prior-approval by advisor) 16

**Second Foreign Language**
(Minimum of 8 credits at the 200-level or above) 8

**Elective courses in related fields** 12

**Total Credit Hours** 40

Note: All courses taken abroad or in affiliated fields (e.g. history, art history, or linguistics) must be pre-approved by the major advisor. Additional courses in French or another foreign language may count as electives.

Students majoring in Foreign Language and Culture Studies are encouraged to pursue some independent study and to spend at least a semester in a French language Study Abroad program.

**Spanish**
The Modern Languages Program offers a Spanish major giving students a proficiency in speaking, listening, reading, and writing. Through a core or requirements, Spanish majors acquire basic knowledge in three areas: Hispanic language, culture, and literature. Beyond this core, students are offered a series of elective courses allowing them to expand their knowledge in all three of the areas or to specialize in one.

Majors in Spanish decide to use their language proficiency in business, government service, teaching, or community services. Study abroad is strongly recommended for both majors and minors. The Study Abroad Office on campus will help students find a suitable program.

**Requirements for the major in Spanish**
(Prerequisites: SPAN 101, 102, 201, 202 or equivalent)

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 301</td>
<td>Advanced Conversation and Composition</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 311</td>
<td>Peninsular Culture and Literature I</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 312</td>
<td>Peninsular Culture and Literature II</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 315</td>
<td>Latin American Culture and Literature I</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 316</td>
<td>Latin American Culture and Literature II</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 360</td>
<td>Literary Theory Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>
Elective Courses (choose 12 credit hours):
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 400</td>
<td>Topics in Hispanic Literature</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 402</td>
<td>Readings in Modern Latin American Literature</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 404</td>
<td>Latinos/as in the United States</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 450</td>
<td>Independent Study</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Total credit hours 36

*Plus, Spanish majors must complete a capstone exam given by the division.*

It is expected that Spanish majors will pursue some independent study. Although not strictly required.

Requirements for the minor in French
(Prerequisites: FREN 101, 102, 201, 202 or equivalent)
Students wishing to minor in French take one required course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 302</td>
<td>Advanced French Grammar and Composition I</td>
<td>4</td>
</tr>
</tbody>
</table>

They then select a minimum of 16 credit hours of 300-400 level French

Total credit hours 20

Requirements for the minor in Spanish
(Prerequisites: SPAN 101, 102, 201, or equivalent)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 301</td>
<td>Advanced Conversation and Composition</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 311</td>
<td>Peninsular Culture and Literature I</td>
<td>4</td>
</tr>
<tr>
<td>or SPAN 312</td>
<td>Peninsular Culture and Literature II</td>
<td></td>
</tr>
<tr>
<td>SPAN 315</td>
<td>Latin American Culture and Literature I</td>
<td>4</td>
</tr>
<tr>
<td>or SPAN 316</td>
<td>Latin American Culture and Literature II</td>
<td></td>
</tr>
<tr>
<td>SPAN 360</td>
<td>Literary Theory Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose 4 credit hours from:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 120</td>
<td>Introduction to Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 202</td>
<td>Spanish IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Or any of the Elective Courses listed above (SPAN 400, 402, 404, or 450)

Total credit hours 20

Music

Through the Division of Performing Arts Music Department, all AU students have many opportunities for musical study and performance, regardless of degree, major, or minor. In addition to introductory music theory and appreciation, students can take classes in piano and voice or study privately in voice or a variety of instruments including carillon. Students have unlimited access to fine pianos and practice rooms. String, woodwind and brass instruments are available for a modest rental fee.

Students can choose to participate in a variety of vocal and instrumental ensembles, both large and small. Most ensembles are open to all students. Select groups require auditions. Students also may choose to participate in smaller chamber groups.

The Division of Performing Arts offers a Music Minor.

Requirements for the Music minor
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 110</td>
<td>Music Appreciation</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 120</td>
<td>Music Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 130</td>
<td>Class Piano I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 131</td>
<td>Class Piano II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 271-279</td>
<td>Music Ensembles</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 101-108; 301-308 Private Lessons (on primary instrument or voice)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Note: Technique classes such as Beginning Voice, MUSC 132, may be substituted for one semester of private lesson.
Select 4 credit hours from:
MUSC 200  Special Topics 1-4
MUSC 211  World Music 4
MUSC 212  American Music 4
MUSC 213  Introduction to Jazz 2
MUSC 214  Reel Music in America 4
MUSC 220  Music Theory II 4
Total credit hours 24

Philosophy

The philosophy program gives students the opportunity to think deeply and systematically about fundamental issues having to do with knowledge, values, human nature, and culture. Some of these relate to foundational questions in various disciplines—for instance: Does the scientific view of the world mean that free will is an illusion? Could a computer be conscious? What makes a work of art meaningful? What is justice? Other questions arise in the course of everyday experience and concern the way we live—our ethics, our choices, our relationships, and our work.

Philosophy students will become acquainted with the history of ideas, with classical and contemporary philosophical debates, and with methods of philosophical analysis. A student who graduates with a major in philosophy will be knowledgeable about the history of Western thought, have some acquaintance with non-Western thinking, be skilled in the analysis of arguments and texts, and be able to understand contemporary issues in their broader historical, intellectual, and cultural contexts. Since philosophical questions often overlap with questions in other fields of learning, philosophy students are encouraged to take interdisciplinary work.

Philosophy majors can pursue careers in any field requiring well-developed analytical and communication skills, including government, business and service professions. Philosophy is also excellent preparation for further studies in graduate and professional schools. Our recent graduates are pursuing careers in medicine, law, philosophy, teaching, politics and policy, and performance art.

Requirements for the major
Students choose one of two tracks:

General Philosophy Track
Required Courses: 12 credits
PHIL 282  Introduction to Logic 4
Choose 8 credits from the following courses:
PHIL 311  Greek Philosophy
PHIL 312  Modern Philosophy
PHIL 313  19th Century Philosophy
PHIL 314  20th Century Philosophy

or topics courses with substantial history of philosophy content chosen with major advisor.

Elective Courses: 20 credits (12 credits must be above 300-level)
PHIL Philosophy Electives

Total credit hours 32
Philosophy of Religions Track

Required Courses: 12 credits
PHIL 281 Ethics
or PHIL 382 Philosophy of Religion 4

Choose 8 credits from the following courses:
PHIL 311 Greek Philosophy 8
PHIL 312 Modern Philosophy
PHIL 313 19th Century Philosophy
PHIL 314 20th Century Philosophy
or topics courses with substantial history of philosophy content chosen with major advisor.

Elective Courses: 24 credits
PHIL Philosophy Electives (4 cr. must be 300-400 level) 8
RLGS Religious Studies Electives (8 cr. must be 300-400 level) 16

Total credit hours 36

Requirements for the minor
The philosophy minor consists of 20 credits in philosophy. A minimum of 12 credit hours must be at the 300 level or above. With permission of the minor advisor, a student may substitute up to 4 credits of the 20 from a related discipline.

Physics

The physics major is for students who enjoy investigating the world around them by applying quantitative methods and fundamental physical principles.

Appropriate preparation includes, if possible, high school physics and four years of high school mathematics. The major is an intensive and individualized program in both theoretical and experimental physics, designed to give each student sound preparation for continuing exploration of pure or applied physics in either industry or graduate school.

To ensure maximum flexibility in meeting student goals, four concentrations have been devised, well-suited to the mix of experiences available at Alfred University. All four make use of the core of courses outlined below but differ in the course choices in the physics electives portion of the major. While allowing students to concentrate in one area of physics, this plan makes it easier for them to complete a major in physics while also majoring in one of several engineering curricula.

Concentrations are as follows:
General Physics – The concentration that allows maximum breadth in students’ physics preparation.
Astrophysics – This concentration makes use of the University’s considerable astronomy resources through the Stull Observatory and our astronomy minor.
Solid State Physics – A concentration taking advantage of the materials-related offerings of the Inamori School of Engineering in the NYS College of Ceramics. Students interested in earning two degrees: a BA in Physics and a BS in Materials Science and Engineering will find this option most attractive. (See special requirements for “Double Degrees on p. 43.)
Mechanical Systems – This concentration includes the offerings in fluid mechanics, thermodynamics, heat transfer, and vibrating systems of AU’s Mechanical Engineering program. It is particularly appropriate for students seeking two degrees: a BA in physics and a BS in Mechanical Engineering. (See special requirements for “Double Degrees on p. 43.)
In addition to these concentrations, we encourage students interested in other physics-related disciplines to discuss the possibilities of combining those interests with our major program.

**Core Requirements for the major**

**First and Second Years:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 125</td>
<td>Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 126</td>
<td>Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 325</td>
<td>Elementary Optics</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 326</td>
<td>Elementary Modern Physics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Third and Fourth years:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 341</td>
<td>Advanced Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 401</td>
<td>Quantum Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 421</td>
<td>Statistical and Thermal Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 423</td>
<td>Advanced Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 424</td>
<td>Advanced Electricity and Magnetism</td>
<td>4</td>
</tr>
</tbody>
</table>

*Plus a minimum of eight credit hours from one of the four concentrations:*

**General Physics concentration – 8 credits from among:**

Any of the courses outlined in the other concentrations, with no more than four credits from any one concentration.

**Astrophysics concentration – 8 credits from among:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 302</td>
<td>Planetary Science</td>
<td>2</td>
</tr>
<tr>
<td>ASTR 303</td>
<td>Stellar Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 304</td>
<td>Galactic Astronomy and Cosmology</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 307</td>
<td>Observational Astronomy</td>
<td>2</td>
</tr>
</tbody>
</table>

**Solid State Physics concentration – 8 credits from among:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEMS 344</td>
<td>Properties II: Electrical, Magnetic, and Optical</td>
<td>4</td>
</tr>
<tr>
<td>CEMS 347</td>
<td>Spectroscopy</td>
<td>2</td>
</tr>
<tr>
<td>CEMS 349</td>
<td>X-ray Characterization</td>
<td>2</td>
</tr>
<tr>
<td>CEMS 501</td>
<td>Solid State Physics*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Seniors in good standing may, with permission of instructor, take a 500-level graduate course.

**Mechanical Systems concentration – 8 credits from among:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 321</td>
<td>Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>MECH 324</td>
<td>Fluid Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>MECH 415</td>
<td>Mechanical Vibrations I</td>
<td>3</td>
</tr>
<tr>
<td>MECH 424</td>
<td>Fluid Mechanics II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credit hours**

38

**Requirements for the minor in Physics**

Physics courses: PHYS 125 Physics I, PHYS 126 Physics II, PHYS 325 Elementary Optics, PHYS 326 Elementary Modern Physics and 8 hours of 300 and/or 400 level courses in physics (4 hours may be taken in astronomy).

Note: Since 300 and 400 level physics courses are only offered in alternate years, careful scheduling is necessary. PHYS 125, 126, 325 and 326 should be completed by the end of the sophomore year.
Planetary Science

The minor in Planetary Science is offered by the Division of Environmental Studies/Geology and the Division of Physics/Astronomy. A student will have met the requirements for the minor after completing ASTR 302 and 12 credit hours of electives chosen from the courses below with a grade of C or better in each course. At least six credit hours must be 200-level or above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 302*</td>
<td>2</td>
</tr>
<tr>
<td><strong>Select 12 credit hours from the following</strong></td>
<td></td>
</tr>
<tr>
<td>ASTR 103</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 107</td>
<td>2</td>
</tr>
<tr>
<td>ASTR 307</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 110</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 201</td>
<td>4</td>
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<tr>
<td>GEOL 210</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 408</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>
### Requirements for Political Science Major—Education Track

#### I. Core Courses
- **POLS 110** American Politics 4
- **POLS 220** Perspectives on Political Science 2
- **POLS 230** Introduction to Data Analysis and Statistics 4
- **POLS 271** World Politics 4

#### II. Elective Courses
At least one course from each of the following two groups:

**American Politics:**
- **POLS 313** State and Local Politics 4
- **POLS 318** The Presidency* 4
- **POLS 331** Parties and Elections 4
- **POLS 411** Bureaucracy* 4

**Political Thought:**
- **POLS 120** Great Issues in Politics 4
- **POLS 340** Classical Political Theory 4
- **POLS 341** Modern Political Theory 4
- **POLS 346** American Political Thought* 4

*These courses have prerequisites; see course descriptions*

#### III. Two courses in related social sciences and geography
- **ECON 201** Principles of Microeconomics 4
- **GEOL 101** This Dynamic Earth 4

#### IV. Four Courses in History
- **HIST 110** The Making of Europe 4
- **HIST 111** Modern Western History 4
- **HIST 211** American History I 4
- **HIST 212** American History II 4

Total credit hours 54

*These courses have prerequisites; see course descriptions*

### Requirements for the minor in Political Science
- **POLS 110** American Politics 4
- **POLS 120** Great Issues in Politics 4
  or **POLS 271** World Politics 4
- **POLS 220** Perspectives on Political Science 2

*Plus ten additional hours in Political Science*

Total credit hours 20

### Requirements for the minor in Public Law
- **POLS 110** American Politics 4
- **POLS 232** Judicial Processes 2
- **POLS 316** American Constitutional Law and Politics* 4
- **POLS 417** American Civil Liberties* 2

*Plus one course from the following:
- **POLS 242** Approaches to Law 4
- **POLS 313** State and Local Politics 4
- **SOCI 245** Crime and Society* 4

Total credit hours 16

*These courses have prerequisites; see course descriptions*
Psychology

The Psychology Program exposes students to the current theories and research in the field, emphasizing the importance of the scientific approach to the study of human behavior and mental states. The curriculum fosters communication skills and critical, scientific thinking about psychological issues. Students in the Psychology program have the opportunity to gain applied experience through supervised counseling skills training, directed research, independent study, and internships. Students in the program will be prepared for graduate education or entry into occupations which utilize knowledge of human behavior, such as counseling, education, law, medicine, and business.

Students who decide to major in Psychology will have comprehensive exposure to the discipline as well as the option to gain additional knowledge and skills related to specific areas of psychology. There are four program options for Psychology majors:

The General Psychology Option encourages breadth of study and allows flexibility in course selection that provides a general knowledge of human behavior and psychological functioning that is useful in many types of careers.

The Clinical/Counseling Psychology Option is for students who wish to have a career in the human services. This option offers basic counseling and clinical theory, supervised applied skills training and internship experience and prepares students for employment with various agencies or for graduate study in any of the clinical or counseling fields.

The Experimental Psychology Option emphasizes the scientific aspects of psychology, including theory, research methodology, statistical and laboratory skills. This option prepares students for Ph.D. study, and/or careers in primary or applied research (e.g., government or industrial research labs).

The Child Psychology Option is for students interested in the social and cognitive development of children from infancy through adolescence. The program includes a supervised experience working with children, either conducting research or applying counseling skills. This option prepares students for graduate study or employment in child-related fields.

Requirements for the major

Option 1: General Psychology

Required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 220</td>
<td>Psychological Methods and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 230</td>
<td>Psychological Research and Design 1</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 330</td>
<td>Neuropsychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 497</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

One course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 251</td>
<td>Principles of Learning and Behavior Modification</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 311</td>
<td>Sensation and Perception</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 332</td>
<td>Cognitive Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses from the following (limit – one Developmental course):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 118</td>
<td>Introduction to Adult Development and Aging</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 261</td>
<td>Cognitive Development</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 262</td>
<td>Social Development</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 282</td>
<td>Social Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>
PSYC 341  Theories of Personality  4

plus electives in Psychology to equal a total of 38 credit hours

Total credit hours  38

Option 2: Clinical/Counseling Psychology

Required courses:
PSYC 101  Introduction to Psychology  4
PSYC 210  Communication and Counseling Skills  2
PSYC 220  Psychological Methods and Statistics  4
PSYC 230  Psychological Research and Design 1  2
PSYC 330  Neuropsychology  4
PSYC 341  Theories of Personality  4
PSYC 342  Abnormal Psychology  4
PSYC 491  Clinical Procedures  4
PSYC 492  Clinical Practicum  4
PSYC 497  Senior Seminar  2

One course from the following:
PSYC 118  Introduction to Adult Development and Aging  4
PSYC 261  Cognitive Development  4
PSYC 262  Social Development  4

One course from the following:
PSYC 251  Principles of Learning and Behavior Modification  4
PSYC 311  Sensation and Perception  4
PSYC 332  Cognitive Processes  4

Total credit hours  42

Option 3: Scientific Experimental Psychology

Required Courses:
PSYC 101  Introduction to Psychology  4
PSYC 220  Psychological Methods and Statistics  4
PSYC 230  Psychological Research and Design 1  2
PSYC 330  Neuropsychology  4
PSYC 411  Psychological Research and Design II  4
PSYC 497  Senior Seminar  2

Two courses from the following:
PSYC 251  Principles of Learning and Behavior Modification  4
PSYC 311  Sensation and Perception  4
PSYC 332  Cognitive Processes  4

Two courses from the following (limited to one Developmental course)
PSYC 118  Introduction to Adult Development and Aging  4
PSYC 261  Cognitive Development  4
PSYC 262  Social Development  4
PSYC 282  Social Psychology  4
PSYC 341  Theories of Personality  4

Six credit hours from the following:
PSYC 352  Research Techniques  2-4
PSYC 450  Independent Study  2-6

Total credit hours  42

Option 4: Child Psychology

Required Courses:
PSYC 101  Introduction to Psychology  4
PSYC 220  Psychological Methods and Statistics  4
PSYC 230  Psychological Research and Design 1  2
PSYC 261  Cognitive Development  4
PSYC 262  Social Development  4
PSYC 320  Parenting Seminar  2
PSYC 330  Neuropsychology  4
PSYC 497  Senior Seminar  2
One course from the following:
PSYC 282  Social Psychology  4
PSYC 341  Theories of Personality  4
One course from the following:
PSYC 251  Principles of Learning and Behavior Modification  4
PSYC 311  Sensation and Perception  4
PSYC 332  Cognitive Processes  4
One course from the following:
PSYC 471  Child Psychopathology  3
PSYC 472  Child Interventions  3
Four credits from the following:
PSYC 485  Practicum  2-4
PSYC 492  Clinical Practicum (at an appropriate site)  4
Total credit hours  41

Requirements for the minor in Psychology

Required Core:
PSYC 101  Introduction to Psychology  4
PSYC 220  Psychological Methods and Statistics  4
Content Group I (one course)
PSYC 251  Principles of Learning & Behavior Modification  4
PSYC 311  Sensation and Perception  4
PSYC 330  Neuropsychology  4
PSYC 332  Cognitive Processes  4
Content Group II (one course)
PSYC 118  Introduction to Adult Development and Aging  4
PSYC 261  Cognitive Development  4
PSYC 262  Social Development  4
PSYC 282  Social Psychology  4
PSYC 341  Theories of Personality  4
PSYC 342  Abnormal Psychology  4
Electives in Psychology (eight credits required)
Total credit hours  24*
*Note: eight hours must be at the 300 or 400 level

Religious Studies

The Religious Studies minor helps students to gain new intellectual perspectives on their own religions and those of other people. It encourages students to see what the world’s great religions have in common and how they differ. Courses explore both Asian traditions (Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, and Shinto) and Western monotheistic traditions (Judaism, Christianity, Islam). We explore the many ways that human beings have asked and answered some of the Big Questions such as: What is the nature of Ultimate Reality? Why do we experience suffering and death? How should we live in this life? What is our ultimate purpose?

The study of religions is inherently interdisciplinary. We consider the great religious stories of each tradition as well as important teachings, texts, teachers, ethics, rituals, and other practices. We examine related material objects including art, architecture, music, food, clothing, and body modification. We explore the emotional dimensions
of religious experience, the social functions of religion, historical developments, and debates within each tradition and between traditions.

Because religious beliefs, rituals and values bear upon all aspects of human life, the study of religion complements majors in many areas, such as literature, history, philosophy, the arts, education, and the social sciences. The study of religion also contributes a great deal to careers in the humanities and social sciences, and also enhances career opportunities in such areas as education, journalism, communications, international affairs, business, social work, counseling, the health professions, and, of course, the religious professions.

**Requirements for the minor in Religious Studies**
The minor consists of 20 credit hours in Religious Studies coursework. Students may substitute up to four elective credit hours in Philosophy, History, Anthropology, English, Psychology, or Sociology courses related to Religious Studies in content or methodology. Substitutions must be approved by the advisor.

**Science Policy**
The minor in Science Policy provides a policy component for students majoring in engineering or science. This is especially important today given the role government plays in terms of both supporting and regulating business. Science policy minors must be majors in either an engineering field or in chemistry, biology, physics, or environmental studies.

**Required courses for Science Policy minor:**
POLS 110  American Politics  4
POLS 355  Public Policy  4
POLS 411  Bureaucracy  4

Experiential Capstone Project*  2-4

**Total Credit Hours**  14-16

*To be determined under advisement

**Sociology**
The Sociology major attracts students who want to better understand themselves, others, and the social, cultural, political, and economic environments within which social interaction occurs. The sociological method makes possible the systematic comparison of data from various types of groups, societies, cultures, and social institutions. Sociology majors take coursework in both theory and methods, allowing them to formulate generalizations about the nature and causes of human social behavior. Majors also participate, when feasible, in experiential learning opportunities. In addition to helping students prepare for graduate study, the major helps prepare students for careers in such areas as social work, law, public health, business, and social research.

**Requirements for Sociology major**

**I. Core Courses (16 credit hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 110</td>
<td>Introduction to Sociology</td>
<td>4</td>
</tr>
<tr>
<td>or ANTH 110</td>
<td>Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>SOCI 230</td>
<td>Introduction to Data Analysis and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 420</td>
<td>Social Theory: A Survey*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 431</td>
<td>Research Design and Strategies*</td>
<td>4</td>
</tr>
</tbody>
</table>
II. Elective Courses (20 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 200</td>
<td>Special Topics</td>
<td>1-4</td>
</tr>
<tr>
<td>SOCI 235</td>
<td>Socialization*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 236</td>
<td>Cults, Sects, and the Main Line*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 242</td>
<td>Social Problems*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 245</td>
<td>Crime and Society*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI/WGST 253</td>
<td>Social Welfare Institutions</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 343</td>
<td>Race and Ethnicity</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 344</td>
<td>Sociology of Deviance*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI/WGST 346</td>
<td>Sociology of Sex and Gender*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI/POLS 347</td>
<td>Contemporary America</td>
<td>4</td>
</tr>
<tr>
<td>SOCI/WGST 348</td>
<td>Sociology of Families*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 400</td>
<td>Special Topics*</td>
<td>1-4</td>
</tr>
<tr>
<td>SOCI 450</td>
<td>Independent Study</td>
<td>1-4</td>
</tr>
<tr>
<td>SOCI 470</td>
<td>Application of Sociology Field Work*</td>
<td>2-4</td>
</tr>
<tr>
<td>SOCI/GLBS 495</td>
<td>Global Issues Seminar*</td>
<td>4</td>
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<tr>
<td>ANTH 302</td>
<td>The Nacirema</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 303</td>
<td>Health and Culture*</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 304</td>
<td>Language and Culture*</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 312</td>
<td>Violence and Culture*</td>
<td>4</td>
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<tr>
<td><strong>Total credit hours</strong></td>
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<td>36</td>
</tr>
</tbody>
</table>

*these courses have prerequisites; see course descriptions

Requirements for the minor in Sociology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 110</td>
<td>Introduction to Sociology</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 420</td>
<td>Social Theory: A Survey*</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 431</td>
<td>Research Design and Strategies*</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight additional credit hours

**Total credit hours** 20

*these courses have prerequisites; see course descriptions

Theatre

The Division of Performing Arts Theatre Department at Alfred University provides students with balanced and inspired learning experiences anchored in well-rounded knowledge acquired through courses and production experiences. Our goal is to educate the “whole theatre artist” by producing high quality work that focuses on close collaboration between directors, designers and actors. Open to all students, majors and non-majors alike, the Alfred Theatre learning experience integrates theory with practical development of skills, techniques, and artful expression. Students acquire in-depth understanding of theatre’s many components and how they work together. Areas of concentration include acting, design, directing, costume/set construction, scenic painting, technical theatre, stage management and arts administration. Theatre students also actively participate in music and dance events and the visual arts.

The Theatre Department is an active member of the American College Theatre Festival and the United State Institute of Theatre Technology which provides students with opportunities to be involved with theatre at a national and international level. We aim to provide students with a solid foundation in order to succeed in graduate school or as professionals and to be life-long artists, technicians and learners.
Requirements for the Theatre major

Core Requirements: (29-31 credits)

THEA 110  Introduction to Theatre  4
PDAT 120  Technical Theatre
or PDAT 220  Principles of Theatrical and Performance Design  4
THEA 212  From Page to Stage: Script Analysis  4
THEA 240  Acting I  4
THEA 311  Theatre History: Art, Politics and Society I  4
THEA 312  Theatre History: Art, Politics and Society II  4
THEA 430  Directing I  3
THEA 431  Directing II  3
or THEA 495  Senior Project  2-4

Electives in Theatre: (12 credits)

PDAT 221  Costume Construction  3
PDAT 222  Stage Makeup  2
PDAT 320  Scene Design  3
PDAT 321  Lighting Design  3
PDAT 322  Stage Costume Design  3
PDAT 323  Stage Sound  2
PDAT 470  Advanced Projects in Theatrical Design and Technology  1-4
THEA 200/300/400 Special Topics  1-4
THEA/ENGL 205  The Play’s the Thing!-Playwriting  4
THEA 210  The Performing Arts: A Global Perspective  4
THEA 230  Stage Management Fundamentals  2
THEA 242/342  Performance Workshop Lab  4
THEA/PDAT 270  Play Production  1-4
THEA 340  Acting II  3
THEA 350  Independent Study  1-4
THEA/PDAT 370  Advanced Play Production  1-4
THEA/PDAT 385  Internship  2-4
THEA 431  Directing II  3
THEA 440  Acting III  3
THEA 490  Senior Seminar  1
THEA 495  Senior Project  2-4

Related Fields: (6 Credits)

ART 111  Introduction to Drawing  4
ART 121  Introduction to Sculpture  4
ARTH 100-level  (Introductory Art History)  2
DANC 120  Fundamentals of Dance  2
DANC-technique  (DANC 221, 222, 223, 321, 322, 323)  2
DANC 230, 330  Improvisation/Composition I, II  3
DANC 270  Alfred University Dance Theatre  2
DANC 211  Dance History  4
ENGL 225  Shakespeare in Cinema  2 or 4
ENGL 411  Shakespeare’s Comedies and Histories  4
ENGL 412  Shakespeare’s Tragedies  4
ENGL 372  Dramatis Personae  4
MUSC 100-108  Private Lessons  1
MUSC 110  Music Appreciation  4
MUSC 120  Music Theory I  4
MUSC 130-139  Voice, Piano, Strings Classes  2
MUSC 270-279  Music Ensembles  2
MUSC 301-308  Private Lessons, Advanced  2
PHIL 283  Philosophy of the Arts I  4
RLGS 307   Myth, Ritual and the Creative Process  4
RLGS 308   Artists, Shamans and Cosmology  4
(other courses may be considered; must be approved by the Division Chair)

Total credit hours required for major  47-49

A Theatre minor is also available for those students who wish to major in another field, yet pursue their passion and development as theatre artists.

Requirements for the Theatre minor

Core requirements (15-16 credit hours)
THEA 110   Introduction to Theatre
or THEA 210   The Performing Arts-A Global Perspective  4
THEA 130   From Page to Stage: Script Analysis  4
THEA 270/370   Play Production  4

Choose one of the following:
THEA 311   Theatre History I  4
THEA 312   Theatre History II  4
THEA 430   Directing I  3

Additional requirements (11 credit hours)
Choose one of the following:
PDAT 120   Technical Theatre  4
PDAT 220   Principles of Theatrical and Performance Design  3
PDAT 221   Costume Construction  4
THEA 240   Acting I  4
THEA 230   Stage Management Fundamentals  2
THEA 242   Performance Lab  4

Choose one of the following: (some courses may have pre-requisites)
PDAT 320   Scene Design  3
PDAT 321   Lighting Design  3
PDAT 322   Costume Design  3
PDAT 470   Advanced Projects in Theatrical Design and Technology 3-4
THEA 340   Acting II  3
THEA 430   Directing I  3
THEA 431   Directing II  3
THEA 311   Theatre History I  4
THEA 312   Theatre History II  4

Choose additional theatre courses to satisfy minimum credit hours required

Total credit hours required for minor  (minimum) 26

Requirements for the Performance Design and Technology minor

The Division of Performing Arts offers a minor in Performance Design/Tech for students who wish to major in another field, yet pursue their interests in performance design and production. This program explores and supports artistic and production endeavors throughout the Division of Performing Arts and other outlets within the University.

Foundation   Requirements (14 to 16 credit hours)
PDAT 120   Technical Theatre  3-4
or PDAT 221   Costume Construction
PDAT 220   Principles of Theatrical and Performance Design  4
PDAT 270   Play Production  2
One Performance Class  2
(Studio Dance course, Music Ensemble, participation in Performing Arts or IART-produced performance)
One History Class  3-4
(Theatre, Dance, Music, Art (IART) History class)
Design/Tech Additional Requirements
Choose 2-4 credit hours from the following:
- PDAT 200 Special Topics 1-4
- PDAT 222 Stage Makeup 2
- THEA 212 From Page to Stage: Script Analysis 4
Choose 3 credit hours from the following:
- PDAT 320 Scene Design 3
- PDAT 321 Lighting Design 3
- PDAT 322 Stage Costume Design 3
- PDAT 323 Stage Sound 3
- PDAT 370 Advanced Play Production 1-4

Capstone:
Choose 3 credit hours from the following:
- PDAT 385 Internship 2-4
- PDAT 470 Advanced Projects in Theatrical Design and Technology 1-4
- PDAT 495 Senior Project 2-4

Total Credit Hours required for the minor (Minimum) 22

Women's and Gender Studies

The interdisciplinary Women's and Gender Studies Minor examines scholarship relating to women and gender, women's contributions to societies around the world, and how gender relates to global socio-political contexts and cultural production.

The objectives of the minor are to provide a theoretical and practical structure within which to study women’s and gender issues; to promote an understanding of the historical and biosocial contexts that shape our awareness of gender; and to encourage independent reading about and study of women's and gender issues.

The course of study for the minor supports and complements study in a variety of majors offered at Alfred University. All program courses can be used as electives in the minor and many count toward a major in other disciplines. Participating faculty are drawn from across the University.

Requirements for the minor

Required Core
- WGST 101 Women in Society 4
- WGST 450 Independent Study 2

Elective Courses
Choose 12 or more credits from at least two groups (I, II, III, IV)

I: Humanities

Communication Studies
- WGST 412 Gender and American Film 4
- WGST 465 Gender, Race, Class and Media 4

English
- WGST 254 Women Writers 2 or 4
- WGST 256 Multicultural American Literature 4
- WGST 408 Women Writers in the Middle Ages 4
- WGST 481 International Women Writers 4

History
- WGST 324 Queer American History 4
## II: Social Sciences

### Political Science
- **WGST 246** Sex and the Body Politic 4

### Psychology
- **WGST 320** Parenting Seminar 2
- **WGST 351** Human Sexuality 4
- **WGST 372** Psychology of Gender 4

### Sociology
- **WGST 253** Social Welfare Institutions 4
- **WGST 346** Sociology of Sex and Gender 4
- **WGST 348** Sociology of Families 4

## III: Fine and Performing Arts

### Fine Arts
- **WGST 382** Women in Art 4

## IV: Women’s Studies

### Women’s Studies
- **WGST 201** Gender and Leadership 2
- **WGST 475** Women’s Leadership Academy Practicum 2

Special Topics courses in Women’s and Gender Studies (WGST 200, 300, 400) also count as electives toward the minor. Recent topics offered include Queer Hollywood, Toni Morrison, Women/Art/History, Poetry-Modernist Women Writers, Jane Austen, and Cuba: Film and Revolution..