



ALMA COLLEGE

2026-27 Academic Catalog



2026-27 Undergraduate Academic Calendar

2026 Fall Conference Dates: August 24 - 25, 2026

2026 Homecoming Dates: September 25 - 27, 2026

2026 Welcoming Convocation: August 27, 2026

Fall 2026

August	31	Monday	Fall Term classes Begin (14-Week and 1st 7-Week class)
August – Sept.	31 – 4	Mon. – Fri.	First Week of Term – Open Drop/Add Week for all fall classes - <i>Web Registration Open</i>
September	4	Friday	Last Day to Add a 1st 7-Week class
September	7	Monday	Labor Day Observance (No classes – Offices Closed)
September	9	Wednesday	Last Day to Add a 14-Week class; Academic Petition (or Provost Office approval) required Sept. 10th and Sept. 11th (courses may not be adjusted within Student Planning – submit an electronic Drop/Add form)
October	2	Friday	Last Day to Drop a 1st 7-Week class (or elect Pass/Fail option for 1st 7-Week class)
October	12 -13	Mon. – Tues.	Fall Term Recess (No classes – Offices Open)
October	13	Tuesday	Midterm Grades for 14-Week classes Due by 9 a.m. (14-Week)
October	16	Friday	Last Day of 1st 7-Week classes (<i>finals to take place the last meeting day of each 7-Week class</i>)
October	19	Monday	Begin 2nd 7-Week classes
October	20	Tuesday	Final Grades for 1st 7-Week classes Due by 9 a.m. (7th week)
October	21	Wednesday	Last Day to Add a 2nd 7-Week class; <i>Last Day to Drop a 14-Week class or elect Pass/Fail Option for 14-Week class</i>
November	2 - 13	Two Weeks	Winter & Spring 2027 Registration (by # earned credits) <i>Web Registration Open</i>
November	20	Friday	Last Day to Drop a 2nd 7-Week class or Elect Pass/Fail Option for 2nd 7-Week class
November	25	Wednesday	Thanksgiving Recess Begins (No classes – Offices Open)
November	26 – 27	Thurs. – Fri.	Thanksgiving Recess (No classes – Offices Closed)
December	7 – 11	Mon. – Fri.	Final Exam Week (See Registrar's website for exam schedule)
December	15	Tuesday	Final Grades Due by 9:00 a.m. (14-Week and 2nd 7-Week)
December – Jan.	12 – 10	Four Weeks	Winter Recess (No classes – Offices Closed Dec. 21 - Jan. 3, Offices Open Jan.4th)

Winter 2027

January	4	Monday	Offices Open
January	11	Monday	Winter Term classes Begin (14-Week and 1st 7-Week classes)
January	11 - 15	Mon. – Fri.	First Week of Term – Open Drop/Add Week for all winter classes – <i>Web Registration Open</i>
January	15	Friday	Last Day to Add a 1st 7-Week class
January	18	Monday	Martin Luther King, Jr. Observance (No classes – Offices Open)
January	20	Wednesday	Last Day to Add a 14-Week class; Academic Petition (or Provost Office approval) required Jan. 21st and Jan. 22nd (courses may not be adjusted within Student Planning – submit an electronic Drop/Add form)
February	12	Friday	Last Day to Drop a 1st 7-Week class (or elect Pass/Fail option for 1st 7-Week class)
February class)	26	Friday	Last Day of 1st 7-Week classes (<i>finals to take place the last meeting day of each 7-Week</i>)
March	1-5	Mon. – Fri.	Winter Break (No classes – Offices Open)
March	2	Tuesday	Midterm Grades for 14-Week classes and Final Grades for 1st 7-Week classes Due by 9 a.m. (8th week)
March	8	Monday	classes resume after Winter Break; 2nd 7-Week classes Begin
March	10	Wednesday	Last Day to Add a 2nd 7-Week class; Last Day to Drop a 14-Week class or elect Pass/Fail Option for 14-Week class
March - April	22 – 2	Mon. – Fri.	Fall 2027 Registration (by # earned credits) - <i>Web Registration Open</i>
March	26	Friday	Good Friday – No classes (Offices Close at Noon)
April	1	Thursday	Graduation Applications for 2028 grads (April, May, August) due. Forms within Inside Alma.
April	8	Thursday	Honors Day (No classes – Offices Open)
April	9	Friday	Last Day to Drop a 2nd 7-Week class or Elect Pass/Fail Option for a 2nd 7-Week class
April	19 - 23	Mon. – Fri.	Final Exam Week (See Registrar's website for exam schedule)
April	24	Saturday	Commencement – Ceremonies Begin at 2 p.m.
April	27	Tuesday	Final Grades Due by 9:00 a.m. (14-Week and 2nd 7-Week)

Spring 2027

May	2	Sunday	Spring Term classes Begin
May	5	Wednesday	Last Day to Add a Spring Term class (non-travel classes only)
May	21	Friday	Last Day to Drop a class or Elect Pass/Fail Option
May	27	Thursday	Spring Term Ends
May	31	Monday	Memorial Day – (Offices Closed)
June	1	Tuesday	Final Grades Due by 9 a.m.

Summer 2027

FULL SUMMER

June	1	Tuesday	Full Summer Session Begins
June	1	Tues. - Fri.	First Week of Term – Web Registration Open
June	11	Friday	Last Day to Add a class
July	9	Friday	Last Day to Drop a class or Elect Pass/Fail Option
August	20	Friday	Full Summer Session Ends
August	24	Tuesday	Full Summer Session Grades Due by 9:00 a.m..

SUMMER I

June	1	Tuesday	Summer Session I Begins (19 days)
June	4	Friday	Last Day to Add class
June	18	Friday	Last Day to Drop class or Elect Pass/Fail Option
June	25	Friday	Summer Session I Ends
June	29	Tuesday	Summer I Final Grades Due by 9:00 a.m.

SUMMER II

June	28	Monday	Summer Session II Begins (19 days)
July	2	Friday	Last Day to Add class
July	16	Friday	Last Day to Drop class or Elect Pass/Fail Option
July	23	Friday	Summer Session II Ends
July	27	Tuesday	Summer II Grades Due by 9:00 a.m.

SUMMER III

July	26	Monday	Summer Session III Begins (20 days)
July	30	Friday	Last Day to Add class
August	13	Friday	Last Day to Drop class or Elect Pass/Fail Option
August	20	Friday	Summer Session III Ends
August	24	Tuesday	Summer Session III Grades Due by 9:00 a.m.

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A College of Distinction



The Alma College Mission

Alma College's mission is to prepare graduates who think critically, serve generously, lead purposefully and live responsibly as stewards of the world they bequeath to future generations.

Vision Statement

An Alma College education seeks to instill a love of learning and celebrate the joy of discovery. Each Alma student will experience a deeply interdisciplinary education that provides opportunity for self-reflection, hands-on learning, and personal and professional development. It will embrace the principles of local, national and global learning communities, build upon strong mentoring relationships, and integrate rapidly changing technology essential for current and future career paths.

The Core Values

Student-centered education in a residential setting

All members of the community – faculty, staff and trustees – are committed to creating an institution of quality centered on the growth and development of undergraduate students. The purpose of the residential college experience is to better prepare students to enter seamlessly into lives in community, vocation, family and faith.

Disciplinary expertise within an interdisciplinary context of learning

The Alma Experience expects students to apply intellectual rigor to the exploration of a range of disciplines, building a broad foundation in the sciences, humanities, fine and performing arts and social sciences. This liberal arts education also prepares students to pursue advanced work, independent research, and creative performances with the depth of understanding to excel in one's discipline and to perceive the connections among disciplines. The practical knowledge and skills of the liberal arts prepare students for lifelong learning and leadership within a wide array of settings.

Diversity, equity and inclusion

We are all transformed when we celebrate and value the varied identities, backgrounds, experiences, and perspectives in our campus community. Alma College strives to cultivate a sense of belonging among students, faculty, and staff as they pursue learning together by recognizing and removing barriers to success as well as offering equitable access to opportunities through education and advocacy.

Engaged learning

Because education takes place everywhere and all the time, it is important both to create an exciting residential learning environment and to extend opportunities for significant learning into the community and wider world. Active participation in learning, engaged citizenship, service-driven leadership and committed stewardship are fostered through research-based undergraduate scholarship as well as programs that support experiential, international and service-learning opportunities.

Ethical integrity, aesthetic appreciation, spiritual sensitivity

With knowledge comes obligation. To live a complete life that withstands the scrutiny of self and others, individuals must exhibit personal integrity, respect for the value of all humanity, and sensitivity to the spiritual and material beauty of one's existence. We expect these principles to be modeled in the educational programs, work, and daily interactions of all members of the college community.

Welcome to Alma College

The 2026–27 Alma College Catalog provides details on all the College's academic programs, policies, and procedures. Here you will find descriptions of courses offered; details of requirements for each major, minor, and program; and an overview of the College's core curriculum.

This catalog will be a guide on your pathway to fulfilling the requirements of your degree and becoming an Alma College graduate who thinks critically, serves generously, leads purposefully, and lives responsibly.

The College's faculty and staff are all here to assist you, whether you are deciding on a major, planning your Venture, seeking an internship, engaging in service learning, exploring summer research opportunities, or preparing to study abroad.

Welcome to Alma! Go Scots!

— Sean D. Burke, Ph.D.
Provost and Vice President for Academic Affairs

Alma College in Brief

A Liberal Arts Education

More than 140 years ago, a group of devoted Presbyterian clergy and laity had a dream: to establish a liberal arts college based upon the loftiest of ideals – unifying the human mind and spirit through knowledge.

The essence of a liberal arts education is learning how to learn. Once acquired, this skill can be applied to any task, any profession. Career success is determined by our ability to exercise such skill. The College's membership in Phi Beta Kappa is an indication of excellence in the liberal arts. Only 10 percent of colleges and universities share this distinction.

A liberal arts education holds a mirror to the world around us, and in its reflection, we see ourselves: as we were, as we are, as we might be. Through such self-discovery comes inspiration and, from inspiration, lifelong commitment. The highest moral and ethical character is built upon such foundations. Our best leaders are shaped by such beliefs.

Academic Programs and Degrees

Alma is classified as a Mixed Baccalaureate College by the Carnegie Foundation for the Advancement of Teaching. The College bestows bachelor's degrees in five areas: arts, sciences, fine arts, music and nursing; and master's degrees in creative writing and special education.

Religious Affiliation

Alma College, affiliated with the Presbyterian Church (U.S.A.), affirms its Christian heritage in which all people are made in the image of God. We seek to foster a diverse community by welcoming people of all faiths, as well as those with no faith tradition, into the Alma College experience. Founded by Presbyterians in 1886, Alma is a highly regarded four-year liberal arts college. Though it is church affiliated, the college does not make religious affiliation or doctrinal uniformity a condition for admission or employment. Our heritage affirms that faith and critical thinking reinforce each other. We are committed to cultivating intellectual, spiritual, and vocational discovery in all aspects of campus life.

Scholarship and Assistance Opportunities

To recognize students' academic achievements in high school, Alma College administers a strong program of scholarships. Regardless of financial need, Alma students can receive scholarship support based on outstanding academic achievements.

Also available are State of Michigan scholarships, grants and loans; federal grants and loans; and federal and College Work-Study program funding.

Undergraduate Research

Alma students are often invited to team up with faculty on scholarly research or to collaborate on creative or performing arts projects. An annual Honors Day features student presentations, performances and exhibits. Many students also present such work at regional, national and international meetings.

Accreditation

The College has been continuously accredited since 1916. Additionally, individual academic programs have received accreditation or approval from the following state or national credential-granting organizations as follows:

Higher Learning Commission

230 South La Salle Street, Suite 7-500 Chicago, IL 60604-1411
Phone: 1-800-621-7440 / (312) 263-0456
E-mail: info@hlcommission.org Web site: hlcommission.org

American Chemical Society

Committee on Professional Training

1155 Sixteenth Street, NW Washington, DC 20036
Phone: 1-800-227-5558 / (202) 872-4600
Web site: acs.org

Commission on Collegiate Nursing Education

655 K Street NW, Suite 750
Washington, DC 20001
Phone: (202) 887-6791
Web site: ccneaccreditation.org

Council for the Accreditation of Educator Preparation

1140 19th St. NW, Suite 400
Washington, DC 20036
Phone: (202) 223-0077
E-mail: caep@caepnet.org
Web site: caepnet.org

Michigan Department of Education

John A. Hannah Office Building 608 West Allegan, PO Box 30008
Lansing, MI 48909
Phone: (833) 633-5788
Web site: michigan.gov/mde/

Michigan Department of Licensing and Regulatory Affairs

Michigan Board of Nursing
611 W. Ottawa, PO Box 30004
Lansing, MI 48909
Phone: (517) 335-9700
Web site: michigan.gov/lara

National Association of Schools of Music

11250 Roger Bacon Drive, Suite 21
Reston, VA 20190-5248
Phone: (703) 437-0700
E-mail: info@arts-accredit.org
Web site: nasm.arts-accredit.org

Campus and Federal Compliance Statements

Campus Security

Alma College abides by the Student Right-to-Know, the Campus Security Act of 1990 and the Higher Education Act Reauthorization of 2008. The College makes information concerning campus crime statistics available in printed form and electronically to the campus community each year. This information is also available to prospective students or employees upon request.

Emergency Procedures

Alma College has adopted an Emergency Response Plan that provides contingency procedures for Alma College administrators, staff, faculty and students in the event of a campus emergency. The College also has implemented a Campus Alert System that allows the College to send immediate, time-sensitive voice, email and text notifications to students, faculty and staff in the event of a campus emergency. Students, faculty and staff can update their emergency contact information by calling the Information Technology Services help desk at (989) 463-7303 or visiting the Help Desk.

Family Educational Rights and Privacy Act (FERPA)

Respecting our students' right to privacy is a priority at Alma College. The college complies with the Family Educational Rights and Privacy Act of 1974, as amended – a

federal law that requires each institution to establish a written policy and procedures to protect the confidentiality of a student's education records.

A person is considered an official student at Alma College when they are officially admitted and registered for at least one credit in a given semester. At this time all functions of the federal FERPA law shall be in effect.

At its discretion, Alma College may provide directory information in accordance with provisions of the Act. As a general rule, Alma College will not release lists of directory information to off-campus vendors.

Typical use of this information includes but is not limited to media releases, publications, event programs and lists for on-campus office use. Directory information includes:

- Student's name;
- Student's local address (if listed);
- Student's local phone number (if listed);
- Alma e-mail address;
- Student's permanent address (if listed);
- Student's permanent telephone number (if listed);
- Current enrollment status or dates of attendance;
- Program level (undergraduate, graduate, professional);
- Class (freshman, sophomore, junior, senior, etc.);
- Major field of study;

- Current term candidacy for degree and/or teacher certification;
- Information pertaining to awards and honors achievements;
- Degree(s) earned from Alma College and effective date(s);
- Photograph (directory purposes and class rosters);
- Participation in officially recognized college activities and sports, including weight and height of athletic team members;
- The most recent educational agency or institution attended;

Social security numbers and student identification numbers are not considered directory information and will not be released except as required or permitted by the Act.

Restricting Directory Information

If the student does not want the College to disclose directory information from the student's education records without prior written consent, the student must notify the Registrar's Office in writing. The student's request to opt-out of disclosure of directory information becomes a permanent part of the student's education record and continues after the student is no longer in attendance, unless the student revokes this approval in writing to remove the request.

Financial Information

The College's annual financial report is available for review by prospective students, alumni and the public upon request at the Financial Services Office.

Alma College Policy on Nondiscrimination

Alma College adheres to all federal and state civil rights laws banning discrimination in private institutions of higher education. Alma College will not discriminate against any employee or applicant for employment, student or applicant for admission on the basis of race, color, sex, religion, national or ethnic origin, physical or mental disability, age, height, weight, marital status, sexual orientation, gender, gender identity, arrest record, genetic information, or any other protected category under applicable local, state or federal laws; including protections for those opposing discrimination or participating in any resolution process on campus or within the Equal Employment Opportunity Commission or other human rights agencies. Questions or concerns about our policies and practices regarding these matters should be directed to Human Resources at (989) 463-7467 or ac-hr@alma.edu.

Media Use Policy

Alma College reserves the right to use any photograph or video taken on campus or at an event sponsored by the college as well as any photo provided to the college. A student who wishes to be excluded from campus photography must contact the Director of Communication and Marketing in writing within the first two weeks of the first day of class of the Fall or Winter Term. Requests for non-disclosure are honored by the institution for only the current academic year, therefore, the request must be filed annually with the Communication and Marketing Office. By failing to provide such notification, you agree that the college may use your likeness.

No person or organization may use, copy, alter or modify Alma College photographs, graphics, videography or other similar reproductions or recordings without the advance written permission of an authorized designee in the Communication and Marketing Office at Alma College.

Students with Disabilities

Alma College is committed to complying with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act (ADA) by providing access to campus facilities and reasonable accommodations in programs, services and classroom activities. Students with disabilities who require accommodation should contact Disability Support Services via email disability_services@alma.edu to initiate services.

Right to Modify Policy

Alma's academic catalog contains the most accurate information available at the time of publication. Alma College reserves the right to change without notice, statements in this catalog concerning, but not limited to, curricula, fees, rules, policies, scholarships and tuitions. Alma College shall have full academic freedom to determine the best method and manner of teaching and does not guarantee a particular method of teaching, including but not limited to, face-to-face or virtual classes.

Admission Information

First-Year and Transfer Student Admission

First-Year students may apply to Alma College after completing their junior year of high school. To assure maximum consideration for scholarships and financial aid, applications should be submitted in the Fall of a student's senior year. Students who earned dual enrollment or other college credit while in high school are considered first-year students.

Transfer students are those who have attended a regionally accredited college after their high school class has graduated. Transfer students may apply anytime.

Alma College will continue evaluating applications on a rolling basis throughout the year. Online application and application requirements may be found at alma.edu/apply or commonapp.org.

I. Basis for Admission (First-Year)

To be considered for traditional admission, domestic high school students must submit an application and at least three years of transcribed high school coursework. Students with a 2.75 high school GPA (or higher) will be considered for admission without the need to submit an ACT/SAT test score.

Students should have made progress toward a total of 16 academic units, which must include a minimum of four years of English, three years of mathematics, three years of social studies and three years of science. In addition, at least two years of one foreign language are strongly recommended.

- Students with a 2.5 - 2.74 high school GPA, or who complete a GED, are required to submit a standardized test score (SAT or ACT), and complete an admissions interview with a designated test-optional interviewer.
- Students with less than a 2.5 high school GPA will complete an admissions interview with a designated test- optional interviewer and may be reviewed by the College's Academic Standards Faculty Committee.
- Students who do not meet these requirements are considered individually for admission.

II. Basis for Admission (Transfer)

Transfer students will be considered for admission if:

- They have completed 24 or more semester college credits and have a cumulative 2.5 or higher GPA. Applicants with a GPA of 2.3 - 2.49 will be considered on a holistic basis and be required to submit additional materials, complete an admissions interview with a designated interviewer, and be reviewed by the College's Academic Standards Faculty Committee.
- OR
- They have completed an associate's degree if they have a cumulative 2.3 or higher GPA.
- OR
- They have completed their most recently earned 24 credits with a 2.5 or higher.

Transfer applicants with 23 semester credits or less will submit high school transcripts and the admissions decision will be based on the high school record.

International Admission

Alma College will waive the English language interview requirement for international students applying from English speaking countries who speak English as the primary language in the home and/or whose high school coursework is primarily in English. Citizens of the TOEFL Exempt Countries (full list available in the Admissions Office) are also considered to have fulfilled the English language requirement.

All international students who apply to Alma College and who are not native English speakers must provide proof of English language proficiency in one of the following ways:

1. Submit official language scores:

TOEFL internet-based: 79 (school code 1010)

IELTS overall band: 6.5

Pearson Test of English (PTE) overall score: 56

Michigan English Test (MET, 4-skill): 57

Duolingo English Test: 110

iTEP Academic: 4.5

2. Submit official SAT or ACT scores at or above these minimum scores:

SAT Evidence-Based Reading and Writing: 520

ACT (English section only): 21

3. Complete three subjects within the International Baccalaureate program.
4. Transfer students currently enrolled in undergraduate study in the United States, at a regionally accredited college or university, may fulfill the English language requirement if a course equivalent to Alma College English 101 (Writing with Purpose) has been passed with a score of "C" or higher.
5. Successfully complete level 112 at an ELS Language Center.
6. The completion of English language programs outside of ELS may be considered on an individual basis. Include certificates of completion with your application.
7. Applicants may qualify for a waiver based on high school or college language of instruction. On an individual basis, we will waive the English proficiency requirement for applicants who have successfully earned a high school diploma at an inter- national high school or a bachelor's degree where the only language of instruction is English. The graduation date should be less than two years to qualify for this waiver.

The Admissions Office may still require an English language interview if they believe it would be in the best interests of the student and the college. Applicants deemed to be academically admissible who do not meet Alma College's

English proficiency requirements may be eligible for conditional admission. This offer would be changed to regular admission once the English proficiency requirement is met.

International students should visit alma.edu/admissions for more information about admissions requirements. Alma College's non-discrimination policy includes race, color, sex, religion, national or ethnic origin, physical or mental disability, age, height, weight, marital status, sexual orientation, gender, gender identity, genetic information, or any other protected category under applicable local, state or federal laws.

Pre-Enrollment Requirements

Before enrolling at Alma College, incoming students are required to:

1. Submit a final transcript of high school grades, including confirmation of graduation. Transcripts are also used in academic advising.
2. Show photo identification to confirm identity.
3. Provide emergency contact information.
4. Complete a medical form that is used to establish the student's confidential medical history in the Wilcox Health Center.

Campus Visits

Students are encouraged to schedule a personalized visit to Alma to meet with a member of the admissions staff, tour campus, meet professors and experience a class. The Admissions Office is open for visits Monday through Friday from 8 a.m. to 5 p.m. (ET) and selected Saturdays; virtual visits are also available. Please consult alma.edu/visit for all our visit options. You may also call the Admissions Office at 1-800-321-ALMA or email at admissions@alma.edu.

Transfer Credit Policy and Evaluation

Alma College accepts credit earned from regionally accredited colleges or universities in the United States. International credit is evaluated using guidance from AACRAO and World Education Services. An evaluation of credit earned is available upon submission of an application and transcripts to the Admissions Office.

All transfer students with 24+ credits will have the First-Year Seminar (FYS) requirement and one Spring Term requirement waived. Students are still required to take one Spring Term course at Alma.

Limitations are as follows:

1. Only non-developmental courses that are graded "C" (2.0) or higher are accepted for credit.
2. All transfer students must complete 46 credits for the degree in residence at Alma or in an Alma-approved program.

3. Transferred credit must be documented by receipt of an official transcript from each institution attended.

4. Transfer credits from courses below the 100-level do not count toward the 120 credits required for graduation.

*Transfer students are encouraged to consult with the Registrar's Office to review transfer credit equivalencies.

Official Documentation

An official transfer evaluation requires all of a student's official college transcripts. Using these documents allows the Registrar's Office to complete a thorough review, including course equivalencies and an accurate time-to-degree plan.

Students should request that official transcripts be sent directly from each institution to admissions@alma.edu. In special circumstances, the Registrar's Office may temporarily accept unofficial transcripts—downloaded from an official student account—while final official transcripts are in transit.

Michigan Transfer Agreement

Alma College participates in the Michigan Transfer Agreement (MTA) to facilitate transfer from Michigan community colleges. A minimum of 30 credits, with at least a "C" (2.0) or higher in each course, must be completed at the community college level to satisfy the MTA, including:

- One course in English composition
- A second course in English composition or a course in communication (a second course in English Composition is highly recommended)
- Two courses in social sciences
- Two courses in humanities and fine arts
- Two courses in natural sciences including one with laboratory experience
- One course in college-level mathematics

Alma College recognizes students who have satisfied the MTA requirements satisfy the requirements for all four Explore courses, ECL 101 (provided a second English Composition course is completed), and meet math competency. A student's official transcript from the sending institution must indicate that the MTA has been satisfied. For more information on the MTA, please visit: <https://www.mitransfer.org/michigan-transfer-agreement>

Associate's Degree & Comparable Work (Core Curriculum Waivers)

Students entering Alma College with an awarded associate's degree or comparable work will have the Explore and Theme requirements in the Core Curriculum waived. "Comparable work" means the equivalent of four full-time college terms with a minimum of 48 credits accepted for transfer. This must include at least three credits each of courses addressing laboratory science, arts or humanities, and social science, plus at least nine additional credits of work outside of the primary area of emphasis.

Alternative Enrollment Policies at Alma College

Continuing Education

Continuing education courses are offered at Alma College during Fall, Winter and Spring Terms. Regular admission requirements are waived to continuing education students, who pay reduced tuition rates for such coursework. No more than eight credits each term and no more than 27 total credits may be taken in this manner.

After 27 credits, it is assumed that the individual is a degree student who must apply for regular admission in part- or full-time coursework and pay regular tuition rates. Any exception to this requires permission from the Provost's Office.

Auditing a Course

Students may audit a course to review its content without earning credit. The cost to audit a course is \$670 per credit and the instructor sets the workload. The College reserves the right to deny audit registration in the event of a capacity limitation if the audit registration would prevent a degree-seeking student from taking the class for credit.

To audit a course, students must submit the Pass/Fail/Audit Form to the Registrar's Office by the end of the second week of the semester (Drop/Add deadline). Forms are available under Student Resources within SharePoint.

- Audited courses receive a grade of "N" on the transcript.
- An audited course may be taken in the future for credit with approval from the instructor and academic advisor.
- A course currently being taken for credit cannot be switched to an audit after the Drop/Add deadline of the term.
- Audit grades cannot replace failing grades or prior course grades.

For questions or to begin the process, contact the Registrar's Office at registrar@alma.edu.

Dual Enrollment

High school students interested in dual enrollment (high school/Alma College) should determine eligibility by consulting with their high school counselors. Students may apply for admission under Continuing Education status by submitting to the Registrar an Application for Dual Enrollment form available from the Registrar's Office and a high school transcript verifying a "B" average. College enrollment is limited to one course for the first term and up to two courses in subsequent terms. Contact the Registrar's Office for further information at (989) 463-7348 or registrar@alma.edu.

Readmission Policy

Students who have had an interruption in their enrollment for one or more semesters must apply for re-enrollment, unless the absence occurred during Spring or Summer Terms. To begin the process, contact the Registrar's Office at registrar@alma.edu to complete a re-enrollment application.

In addition to the application, students must submit transcripts from all colleges attended during their time away, even if no credits were earned. Students returning after academic dismissal or probation may be asked to include a personal statement outlining their plan for academic improvement. Similar to primary admission to Alma College, the college reserves the right to deny readmission to Alma College for any reason.

Any outstanding balances must be resolved before registering for classes. Re-enrollment requires coordination with the Registrar's Office, Student Affairs, Financial Services, and Financial Aid offices. If returning to Alma College after active duty, please also see our *Readmission Guidelines for Service Members* policy through Financial Aid.

Accelerated Programs and Advanced Placement

Accelerated Program Options

Students may accelerate their Alma degree program to finish in less than four years through a combination of concentrated academic scheduling, advanced credits gained while in high school and transferred credits from other college work. Steps include connecting with the student's faculty advisor and Registrar's Office to determine if course rotation may allow a program to be accelerated. An accelerated degree plan may be completed upon request in consultation with the Registrar's Office and a completed academic audit.

Advanced Placement (AP)

Students may earn college credit for work done in high school if they have participated in the College Entrance Examination Board Advanced Placement Program. The official results of examinations must be sent to the Registrar's Office for credit to be granted. The AP courses and qualifying scores for the examinations are listed on the table within this catalog.

College Level Examination Program (CLEP)

Alma College does not accept credit from the College Level Examination Program (CLEP).

International Baccalaureate (IB)

Alma College awards 30 credits to students who earn the International Baccalaureate diploma. Alternatively, the College awards credit for individual exams taken at the Higher Level (HL) with earned scores of "5" or above. Alma College course credit earned by achievement on the IB HL exam with a score of 5 or higher may satisfy core curriculum requirements for graduation.

Acadeum Course Share

Acadeum Course Share provides online college courses to Alma College students from other accredited institutions. Alma College is a member of the Acadeum College Consortium, a group of accredited private colleges and universities that share select online courses to support students in their educational goals. Schools who participate in online teaching of course equivalencies with Acadeum are already approved for transfer of course credit back to Alma College. And in most cases, students can apply for financial aid (FAFSA). Courses taken through Acadeum during will have

a tuition cost of \$1600 per course. Alma College honors the specific enrollment dates for adding and withdrawing from an Acadeum course to the specific dates published by the respective teaching institution. Students should be aware that these dates may differ from standard Alma College courses and plan accordingly. All course details are available in the student's Acadeum account and determined prior to finalizing enrollment. The primary uses of the consortium are to provide students with greater access to courses when they need:

- To repeat a course.
- To increase their grade point average to remain enrolled or maintain athletic eligibility.
- A prerequisite for an upcoming course.
- A course that is not offered during the semester.

Courses taken through the consortium are transcribed on the student's Alma transcript, allowing for the following:

- Alma College to apply financial aid to the courses.
- Students can improve their GPA by substituting a course grade earned through the consortium for the course previously taken at Alma (if eligible for repeat).
- Students can count the consortium course(s) towards part- or full-time status and residency requirements.
- Student may not enroll in Acadeum while on a financial hold with Alma College.

Enrollment in Acadeum requires approval through the Registrar's Office and is only permitted by students in good financial standing. Courses are approved for student enrollment through our respective department chairs or Provost's Office. Students using Veteran Benefits are permitted to take Acadeum courses as electives, but they are not VA benefit eligible and students will be required to pay out-of-pocket for these courses. By enrolling in an Acadeum course, the student receiving VA benefits acknowledges the course(s) will not be certified by the VA.

Advanced Placement Courses and Qualifying Scores

AP Course Name	Qualifying Score(s)	Alma College Course Equivalent	Credits Awarded*
2D Art and Design	4–5	ART 180	3
3D Art and Design	4–5	ART 180	3
African American Studies	3	HUM 180	3
Art (Drawing)	4–5	ART 180	3
Art (Studio)	4–5	ART 180	3
Art History	4–5 (3 w/dept. approval)	ART 201	3
Biology	4	BIO 180	4*
	5	BIO 121	4*
Chemistry	4–5	CHM 115	4*
Chinese Language	3	CHN 111	3
	4	CHN 111, 112	6
	5	CHN 111, 112, 280	9
Computer Science A	5 (4 w/dept. approval)	CSC 119	3
Computer Science Principles	4–5	CSC 180	3
Economics: Macro	4–5	ECN 111	3
Economics: Micro	4–5	ECN 112	3
English Language and Comp	3, 4	ECL 100	3
	5	ECL 101	3
English Literature and Comp	3–5	ECL 180	3
Environmental Science	4–5	ENV 180	3
French Language	3	FRN 111	3
	4	FRN 111, 112	6
	5	FRN 111, 112, 280	9
German Language	3	GRM 111	3
	4	GRM 111, 112	6
	5	GRM 111, 112, 280	9
Government and Politics: Comparative	4–5	POL 111	3
Government and Politics: U.S.	4–5	POL 101	3
European History	4–5	HST 180	3
U.S. History	4–5	HST 180	3
World History	4–5	HST 180	3
Human Geography	4–5	GGR 102	3
Italian Language	3	WLC 111	3
	4	WLC 111, 112	6
Japanese Language	5	WLC 111, 112, 280	9
Latin Language	3	LAT 111	3
	4	LAT 111, 112, 280	6
	5	LAT 111, 112, 280	9
Math: Calculus AB	4–5	MTH 121	3
Math Calculus: BC	3–5	MTH 121, 122	6
Math: Precalculus	4–5	MTH 112	3
Math: Statistics	4–5	MTH 116	3
Music: Listening and Literature	4–5 (3 w/dept. approval)	MUS 180	3
Music Theory	4–5 (3 w/dept. approval)	MUS 111–112	3–6
Physics 1	4–5	PHY 112	4*
Physics 2	4–5	PHY 113	4*
Physics C: Mechanics	4–5	PHY 121	4*
Physics C: Electricity and Magnetism	4–5	PHY 122	4*
Psychology	4–5	PSY 120	3
Research	4–5	HUM 180	3
Seminar	4–5	HUM 180	3
Spanish Language	3	SPN 111	3
	4	SPN 111, 112	6
	5	SPN 111, 112, 280	9

* All AP credit must have department approval to count in the major or minor.

Financial Services

Residence/term	Tuition	Housing*	Meals**	Stud Act Fee	Total
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Residence Halls: Bruske, Gelston, Mitchell, Newberry, South Campus Dorms

FA26	26,652	4,624	3,045	135	34,456
WI27	26,652	4,624	3,045	135	34,456
TOTALS	53,304	9,248	6,090	270	68,912

Residence: Greek and Other Small/Theme Housing

FA26	26,652	5,058	3,045	135	34,890
WI27	26,652	5,058	3,045	135	34,890
TOTALS	53,304	10,116	6,090	270	69,780

Residence: Wright Hall and Wright Avenue Apartments

FA26	26,652	5,841	2,444	135	35,072
WI27	26,652	5,841	2,444	135	35,072
TOTALS	53,304	11,682	4,888	270	70,144

Residence: Opera House

FA26	26,652	6,197	2,444	135	35,428
WI27	26,652	6,197	2,444	135	35,428
TOTALS	53,304	12,394	4,888	270	70,856

Spring Term – All Residences

SP27	2,220	337	743	0	3,300
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2026 Summer Expenses (Summer 2027 expenses will be available in early 2027 prior to summer enrollment)

- Tuition on campus or online \$335 per credit hour
- Off Campus \$153 per credit hour
- Housing \$91 per credit hour

*A limited number of single and super-single rooms are available for an additional \$1,466 and 2,503 respectively.

**Meal charge is shown at the standard meal plan rate

Meal Plans

A	3,045
B	3,045
C	2,444
D	3,045
E	743

Daily meal plan rate	\$31.07
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Note: Non-resident students can purchase any plan for the cost indicated above.

The tuition charge is before any financial aid awards, which represent a significant cost reduction for most students. The Board of Trustees reserves the right to change any charges prior to the opening date of any term.

The Fall and Winter Terms tuition charge shown is for a term load of 12 to 17 credit hours. Students registering for more than the normal allowable credit hours per term are charged an overload rate of \$1,665 for each credit hour over 17. See the Tuition-Exempt Credits section in this catalog for exceptions to the rule.

If a student goes from full-time status to part-time status after the official census date for the term (after the 10th day of classes) there is no tuition or financial aid adjustment. If a student adds a class and goes from part-time status to full-time status after the official census date, tuition is increased to the full-time rate but financial aid is not adjusted.

Students enrolled full time are required to live in Alma College residences and dine at the College's food service. Exceptions to this policy must be approved through the Residence Life Office.

Students may elect to participate in an off-campus Spring Term program. The costs – airline, hotel, meals, fees, special accommodations, etc. – are in addition to the Spring Term tuition charge. Room and meal plan charges are assessed for the days spent on campus. The student is responsible for all costs associated with their participation in the Spring Term.

The students of Alma College have elected to assess a student activity fee on themselves at the rate of \$270 per year. This fee is used to sponsor social events such as dances, movies and live entertainment; support the yearbook and student newspaper; and admit each student to athletic events. All students enrolled for eight or more credits are charged this fee.

Full-time students who are ineligible to file the Free Application for Federal Student Aid (FAFSA) and do not receive Alma College institutional financial aid; therefore, paying the full-time full-tuition rate, will have the fee for housing and meals waived if they live on Alma's campus. This waiver is available to students only during their first eight semesters on campus. Students will not receive credit or reimbursement if they are eligible for this waiver and live off campus or if they are not charged a fee for any reason. The waiver applies to standard housing and meals fees only, which are set each year by the Board of Trustees. Additional fees associated with premium housing and/or special meal plans are not included.

Deposits

Accepted applicants are required to pay a Commitment Deposit of \$300, refundable until May 1. This deposit is applied as credit to the student's first semester bill.

Tuition-Exempt Credits

Normal allowable Fall and Winter tuition charges are for a semester load of 12 to 17 credit hours. Students registering for more than the normal allowable credit hours per semester are charged an overload rate of \$1,665 for each credit hour over 17.

Students are permitted to enroll in a maximum of two credits, from the approved overload exempt class list, above the normal load of 17 credits without incurring a tuition overload charge. Additional exceptions may be allowed for first year students and music major students. Students should contact the Registrar's Office for overload exempt courses and questions related to exempt courses. *Note: approval for an exempt overload course may be granted by the Registrar's Office.*

Health Insurance Plan

All full-time residential Alma College undergraduate students are required to have health insurance and must participate in the Student Insurance Plan unless proof of comparable coverage is furnished. Students covered under a family plan, or who have other comparable coverage to the Alma College Plan, may waive coverage under the College Plan. Alma College makes a comprehensive student insurance program available to undergraduate students that is compliant with the Affordable Care Act. The plan provides for physician visits, prescription drug expense benefit, outpatient

services including medical emergency, x-rays, lab procedures and miscellaneous tests, hospital miscellaneous, surgery (inpatient and outpatient), wellness benefits and a 24-hour Nurse Advice Line. This plan is not available for low-residency graduate students. The annual premium cost may be subject to change due to contractual obligations. The finalized cost for 2026-27 will be determined after the academic catalog is published. Details about the plan and costs (when finalized) are available online at: <https://www.alma.edu/wilcox-health-center>.

International Student Health Insurance

All international students or exchange visitors who attend Alma College on F, J, or other visa status must purchase and enroll in the Alma College Student Injury and Sickness Health Insurance Plan before the start of classes for any given term, or the College will purchase coverage and place the charges on the student's account.

Outside health insurance plans will not satisfy the institutional requirement, except in the following limited cases. An international student may request a waiver if:

- The student provides proof of health insurance through a sponsor.
- The student provides proof of health insurance provided by a United States employer.
- The student provides proof of health insurance provided by a U.S.-based parent, spouse, or domestic partner.

A student will be granted a waiver in the cases above if the health insurance coverage meets or exceeds the college specific coverage requirements. Students who wish to submit a waiver request may send an email or contact the Student Affairs Office for additional information. Other charges that students may experience are described further.

Miscellaneous Fees

Auditing – no credits earned*	\$670/credit
Continuing Education	\$241/credit

Motor Vehicle Registration

Resident Students	\$370/year
Resident Students – Silver Parking	\$320/year
Commuter Students	\$230/year
Auxiliary lots	\$185/year
Proficiency Examination	\$275/credit
Room Change Fee	\$50/term

*Audits may be taken within a full-time course load in the Fall or Winter semesters without incurring additional costs to audit a course for zero credit. Audits completed in Spring Term will still be required to pay all student fees associated with a Spring Term course along with tuition expenses under the audit costing.

Off-Campus Study Costs and Financial Aid

Students are assessed a \$490 administrative fee and costs appropriate to the program in which they are enrolled. Those who study off campus at the same host program for two or more consecutive terms are not assessed an additional administrative fee. However, those who study at different host programs or for non-consecutive terms are charged \$490 for each program or term.

1. Exchange Programs – defined as programs with institutions or organizations that have a reciprocal exchange agreement with Alma College to both send and receive students. Students participating in exchange programs are assessed Alma College tuition and mandatory fees for semester programs. Tuition for summer programs and all housing and meal plan fees are assessed for either Alma College or the host institution, depending on the College's agreement with the host institution. Alma College, state and federal financial aid may be applied toward semester exchange programs.
2. Off-Campus Study – defined as non-exchange domestic and study abroad programs approved for currently enrolled Alma College students. Participants are assessed the tuition and mandatory fees of the selected host program. External funding, including federal financial aid, may be applied to off-campus study. Alma College financial aid, including Tuition Exchange Programs, is generally not applied toward study abroad and domestic off-campus study programs. Employee Tuition Grants (ETG) may be applied to off-campus study up to the cost of Alma College tuition.

Students participating in off-campus study programs pay application and enrollment confirmation fees (where applicable) directly to the host organization. For most off-campus study programs, other mandatory program charges, such as tuition, will be invoiced to Alma College and applied to the student's Alma College student account. Once the student account balance has been paid, the college will pay the program invoice for the student's off-campus study program.

Financial Obligations

It is the student's responsibility to fulfill their financial obligations by paying their account balance in full by the due date – August 1 of each year for the Fall Term – or setting up an authorized payment plan. The Winter Term payment is due on December 15 of each year. Any student who hasn't fulfilled this financial obligation will be dropped from classes on the first day of the semester, their housing assignment will be cancelled, and they will not be able to participate in any college sponsored extracurricular activities. Students will also not be allowed to re-enroll or register for future semesters until all current financial obligations are satisfied.

Billings are available to be viewed and/or downloaded from the student portal by mid-July; at least 30 days prior to each term thereafter. Payment of tuition and fee charges can be made with cash, personal checks, bank drafts, or money orders by mail or in person at the Alma College Student

Billing Office. Payments can also be made online with a Visa, Mastercard, American Express or Discover card, or with an e-check at the Student Billing Office. A convenience fee is charged for all credit and debit card payments. There is no fee to make an electronic check payment. If the amount of the payment is more than the amount due, students may request a refund or the amount will be credited to their account.

An educational financing plan permits payment of the term or annual expense over the term of academic year and is available through PayMyTuition. Information is available from the Student Billing Office.

Account Holds

A student's account is placed on a financial hold if they have an unresolved balance on the first day of the semester. Students will also not be allowed to re-enroll or register for future semesters until all current financial obligations are satisfied. Students who are not registered for the next semester, not in good financial standing or are in a sport that is not currently competing are not eligible to remain in on-campus housing after the last day of final exam week.

Late Payment Fees

A late payment fee of \$25 per month is assessed on student accounts with a past due balance.

Failure to Meet Financial Obligations

In accordance with standard practice at colleges and universities, students are required to make satisfactory arrangements with the Student Billing Office for the settlement of all financial obligations. These include student accounts, student loans, parking fines, library fines, music rentals and other expenses.

Failure to resolve a balance within 90 days from the date of departing Alma College will result in the account being sent to a third-party collection agency. If a student's account is sent to a third party for collection, the student will be responsible for additional collection costs equal to 25% of the account balance at the time the account is referred to a third party. Delinquent accounts may be reported to one or more of the national credit bureaus. In accordance with federal guidelines, it is the College's policy to not withhold a transcript for a student who receives federal financial aid. However, upon release of the transcript with a financial hold, that student's account balance will be turned over to collections immediately. For full policy guidelines for transcripts, please view the Transcript Policy found within this academic catalog.

Financial Aid

All financial aid awarded to students is split evenly between the Fall and Winter Terms. Federal Work-Study (FWS) funds are not deducted from the bill at Alma College, but can be used by students to earn biweekly wages from an on- or off-campus job and be used toward other educational expenses. Scholarships and grants awarded by organizations other than Alma College will not be credited until the funds are received by our office. Alma College institutional scholarships and grants are renewable for a maximum of 4 academic years or 8 total semesters. You may review all financial aid policies online so that you are familiar with situations that may affect your financial aid.

Refund of Federal Title IV Financial Aid

The Higher Education Amendments of 1998 mandates the formula for calculating the amount of financial aid a student and school may retain when a student withdraws from all classes before completing 60% of the term. Under Title IV financial aid regulations, the withdrawal date is defined as the earlier of:

1. The date the student began the withdrawal process or officially notified the institution of the intent to withdraw, or
2. The student's last date of documented attendance at an academically-related activity. If a student stops attending and fails to officially withdraw from classes, the student is considered to be unofficially withdrawn.

Unofficial withdrawal dates are determined by an end-of-term report from the Registrar's Office to identify students who have no passing grades. Faculty are contacted to determine the last date of attendance or academic activity for a student and that date is used as the withdrawal date.

If there is no proof of attendance beyond 60% completion of the term, the student is considered unofficially withdrawn and a refund calculation is performed.

Section 484B (c) of the HEA states that it is the institution's responsibility to determine a student's withdrawal date. Therefore, the institution, not the student, must document a student's attendance at an academically related activity. A student's certification of attendance that is not supported by documentation by the institution would not be acceptable documentation of the student's attendance.

The percentage of Title IV assistance earned is determined by dividing the total number of calendar days in the semester into the number of calendar days completed as of the withdrawal date. Any unearned aid must be returned to the Title IV program(s). Funds are returned in the following order: Unsubsidized Direct Loan, Subsidized Direct Loan, PLUS Loan, Federal Pell Grant, Federal SEOG and other Title IV programs. The student must either repay the federal overpayment in full or make satisfactory arrangements with either Alma College Financial Services or the federal Department of Education. The payment or arrangement for payment must

be made within 45 days of the date of notification of the federal overpayment or the student will lose further eligibility of federal Title IV aid until the debt is paid in full. Information is available from the Financial Aid Office.

Withdraw and Refund Policy

Withdrawing from a course or program may have academic and/or athletic consequences, such as impacting a student's progress, grade, or eligibility for financial aid. Students are advised to consult with academic advisors and the Financial Aid Office to understand the potential implications of withdrawing. It is the student's responsibility to determine the best course of action when it comes to deciding to withdraw.

Students must follow the institution's designated process for withdrawing. It's important to ensure that all necessary steps are completed to ensure a smooth withdrawal process.

Tuition and Fees

If a student withdraws from a course or program before the start of the term, a full refund of tuition and fees will be provided. If a student withdraws from a course or program within the first week of the term, a partial refund of tuition and fees may be granted. The specific percentage of the refund will be determined by the institution's refund schedule listed below.

Refunds for Fall and Winter Terms

Week 1 100%	Week 4 50%
Week 2 100%	Week 5 25%
Week 3 75%	

Beginning with week six there will be no refunds for tuition and fees when withdrawing from a course or program. Exceptions may be made for extenuating circumstances, such as medical emergencies or other unforeseen events, and will be considered on a case-by-case basis.

College scholarships, grants and/or loans received by the student are refunded on a comparable percentage basis. Refunds for other non-College financial aid are made in accordance with the rules and regulations applicable to those programs.

Non-refundable fees will include orientation fee, class fee, health insurance and commitment fee and therefore will not be eligible for a refund under any circumstances.

Room and Meal Plans

If the student cancels before moving in, no fee is charged. Once a student moves in the student is responsible for all housing and meal plan costs unless they formally withdraw from the college or receive a residency exemption. If the student withdraws or receives a residency exemption, housing and meal plan costs will be prorated to the date of checkout, formal withdrawal or residency exemption approval, whichever is later. No future term charges will apply.

Financial aid is calculated on the total cost of attending Alma College, including the cost of housing and a meal plan. When a student does not live in a campus room and/or meal plans are removed from the College's charge to a student, Alma College financial aid is also reduced. The aid reduction amounts are determined each academic year. This amount is published on the website <https://www.alma.edu/financial-aid/policies-forms-and-resources/>.

Spring and Summer Term Tuition

No refund of tuition for withdrawals that occur after the fifth business day from the start of the term. A 100% tuition refund is provided for withdrawals during the first five business days of classes. Trip or class fees will be refunded only if the trip or class costs, such as airlines, hotels and other fees can be recovered.

Tuition Refunds

Students who are withdrawing from the institution should expect to see their refund within 3-4 weeks once the withdrawal paperwork is submitted to the Office of Academic Support. Students who withdraw from a course and are due a refund should complete the electronic student refund request form. Refund forms are processed weekly beginning after the 10th day of classes.

Other information

If a student wishes to re-enroll in the future, they will need to contact the Registrar's Office to follow readmission procedures. Any outstanding balance on their student account with Financial Services must also be paid in full.

The College reserves the right to administratively declare a student withdrawn from the college if the student's financial account is not in good standing. The college also has the right to academically withdraw a student from the College if the student is not meeting the academic satisfaction guidelines.

Veterans Pending Payment Compliance

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veteran Affairs (VA) Post 9/11 *G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the student's enrollment;
- Assess a late penalty fee;
- Require student secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

To qualify for this provision, such students may be required to:

- Provide Chapter 33 Certificate of Eligibility (or its equivalent) or for Chapter 31, VA VR&E's contract with the school on VA Form 28-1905 by the first day of class.

Note: Chapter 33 students can register at the VA Regional Office to use E-Benefits to get the equivalent of a Chapter 33 Certificate of Eligibility. Chapter 31 students cannot get a completed VA Form 28-1905 (or any equivalent) before the VA VR&E case-manager issues it to the school.

- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies.

Students using VA education benefits—such as the Post-9/11 G.I. Bill® (Chapter 33), Montgomery G.I. Bill® (Chapter 30), or Dependents' Educational Assistance (Chapter 35)—must complete monthly enrollment verification to receive their payments.

- Enrollment can be verified starting on the last day of each month during the semester.
- Timely verification is required to ensure continued benefit payments.

Important for students on payment plans: VA payments may not arrive before scheduled payment plan due dates. Students should plan ahead to ensure they can meet their financial obligations, as delays in VA payments do not excuse missed or late payments.

*G.I. Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at <https://www.benefits.va.gov/gibill>.

Student Life

Residential Living

Alma College is a residential college committed to the social, personal, and intellectual development of students. To this end, Alma College has constructed residence halls and purchased small housing units and apartments to create a reasonable variety of housing options. Residence halls are intended to provide an environment which encourages academic progress,

promotes positive interpersonal contacts, and increases personal and social responsibility and effectiveness. The Residence Life staff is available to provide program leadership, advice of a personal and academic nature, and to help maintain standards of decorum and behavior necessary for an atmosphere conducive to academic achievement. The College requires students to live in residence halls or small housing units throughout their period of attendance at Alma College.

Student Activities

The Alma experience involves more than time in the classroom and library. Students are encouraged to take advantage of the wide range of opportunities available to them, including approximately 100 clubs and organizations, student government, publications, Fraternity & Sorority Life, Model UN and athletics. The Office of Student Engagement located in the Center for Student Opportunities (CSO), serves as a resource center for students and student organizations.

Student Congress

Alma College's Student Congress serves as a student government body, representing the interests and voices of the student body, and is open to all Alma College students.

Wilcox Health Center

We provide comprehensive, cost-effective, and compassionate health care on campus. Our integrated approach empowers you to become an active participant in your physical health and mental well-being. We offer medical and counseling services with in-person and telehealth options. All visits are confidential and health information is protected.

Medical Services

Our trained staff are pleased to help you attain and maintain health throughout your college years. We offer a variety of services similar to those of a family physician or urgent care including diagnosis and treatment of illness and injury, routine physicals, allergy shots, STD testing, lab work and travel vaccines. Medical visits are billed to your insurance.

Counseling Services

Our licensed professional counselors are trained to support and treat mental health disorders and issues. Through individual counseling or group educational programs, we can help you develop strategies to overcome any challenges you encounter during your time at Alma. The counselors offer an objective, non-judgmental perspective to assist you in overcoming both long-standing and immediate concerns. We offer in-person counseling appointments, 15-minute drop-in sessions, walk-in immediate care and a Wellness Room. We also work with our medical staff to help students manage mental health medication. All currently enrolled students are eligible for free and confidential therapy and consultation services.

Our health care providers look forward to assisting you with your health care needs in the future. Please email us at wellness@alma.edu or call us at 989-463-7181. You can also schedule online through Inside Alma.

Campus Safety

Alma College strives to provide a safe learning environment and educate our community about crime prevention. An integral component of that effort is our Campus Safety Office, located in Tyler-Van Dusen. The office is open 24/7, 365 days a year, and staffed with trained personnel.

Campus Safety personnel do not have law enforcement authority; however, they work closely with local and state law enforcement agencies, which are responsible for investigating alleged crimes on campus. Students are encouraged to report all crimes accurately and promptly to Campus Safety and Security, who will notify local law enforcement agencies. Students are also encouraged to dial 911 directly in case of life-threatening emergencies.

Academic Rules and Procedures

Academic Advising Program

Upon admission to Alma College, each student is assigned a faculty advisor on the basis of academic and career interests. Working with this advisor, students plan their courses and evaluate their progress. For those students who are uncertain about their interests, advisors are specially selected who can assist them in exploring and establishing a career direction through a well-developed plan of coursework and co-curricular experiences. Students' academic goals may also change during the course of their college careers. Accordingly, students may change advisors at any time, especially when an additional or new academic major is declared.

Final Examinations

The Final Examination Schedule is established by the Registrar and published at the beginning of each term. Instructors will announce testing plans in the course syllabus; the final test or activity (presentation, paper, etc.) must be at the officially-scheduled time. In the rare occurrence that a change is required to a course's final exam, requests should be made to the Registrar's Office.

In a case where there are **three exams scheduled for the same day**, a student has the right to request an alternative exam time for one exam. Students seeking to reschedule must contact the Provost's Office *at least a week prior to the exam day*. The Provost's Office will, in consultation with the student and the instructors, identify which exam can be rescheduled most easily. The Provost's Office must approve any rescheduled exam.

Conditions of Enrollment and Definitions

Based on definitions used in federal reporting—students entering Alma College will be defined in one of two categories—a FTIAC (First Time In Any College) Student or Transfer. Students are categorized by their prior college experience upon enrollment at Alma College.

FTIAC (First Time In Any College)

A student who has never attended any postsecondary institution prior to enrollment at Alma College. Key distinctions include:

- **Dual Enrollment/AP/IB:** Students who earned college credit while in high school are still considered FTIAC, provided they are enrolling in college for the first time after high school graduation.
- **Summer Enrollment:** Students who attend college for the first time in the summer immediately before their first Fall Term are still considered FTIAC.

Transfer Student

A student who enrolls at Alma College with credit earned from a previous postsecondary institution. Key distinctions include:

- **Transcript Requirement:** A transfer student has typically graduated high school and completed college coursework elsewhere.
- **Credit Accepted:** Federal definitions often include students who transferred, regardless of whether their previous credits were accepted by the new institution, or credits were earned.
- **Exceptions:** Credit earned concurrently with high school, or in the summer immediately between high school and college, does not make a student a "transfer" for federal reporting purposes.

Registration

Returning students usually select courses during the registration period in the preceding semester. Newly admitted students will work with assigned Master Advisors to make course selections online during the summer months preceding Fall enrollment. Course selections are reviewed with their faculty advisors during Becoming a Scot Day (annual orientation events), at which time the schedule may be adjusted.

Changes in Registration

Students must file changes through the approval process with the Registrar's Office by completing the Drop/Add Request Electronic Form. Students may also drop and add courses when the portal is open for course adjustments. Courses may be added during the first week of each term if approved by the advisor. During the second week, students may add courses only with permission from both the instructor and their academic advisor through the third business day of the second week. No courses, except those scheduled for the last seven weeks of the term, may be added after the second week. In rare circumstances, an academic petition may be completed with the Registrar's Office and approved by the Academic Standards Committee to drop or add a course after the published deadlines.

Class Load

To maintain full-time status during a 14-week semester, students must enroll in no fewer than 12 credits and no more than 17 credits. Credits taken over 17 may require overload tuition. To graduate with a bachelor's degree from Alma College in four years, students must complete 120 credits, typically distributed as follows:

- Six semesters with 15 credits each;
- Two semesters with 12 credits each;
- Two Spring Terms with 3 credits each (only one course is permitted during Spring Term)

Students are advised to consider this total when selecting classes/credits as it's possible to take more or fewer credits during a semester. Students who wish to qualify for full benefits from the Veterans Administration, Social Security or other financial aid sources are advised to enroll for no fewer

than 12 credits. Athletes should be aware that Alma College requires a 12-credit course load for eligibility.

Overload Exempt Course Policy

The class load for a 14-week semester shall be no fewer than 12 credits and no more than 17 credits for full-time status. Some courses at Alma are tuition exempt and may be taken over the 17-credit maximum without incurring additional tuition.

Students may enroll in a maximum of 2 credits beyond the 17-credit maximum per semester from the list below:

Common Overload Exempt Courses:

DAN 151 AC Dance Company
DAN 248 Highland Dance I
HNR 100/200/300 Honors Seminar
HNR 150/250 Honors Reading Group
HNR 199/299 Honors Independent Studies
HSS 180/280/380 Health Science Review
POL 328 Advanced Model UN "A"
POL 329 Advanced Model UN "B"
MUS 150 Accompanying
MUS 151 College Chorale
MUS 151 Chamber Orchestra
MUS 153 Kiltie Band
MUS 153G Winter Guard Ensemble
MUS 154 Scottish Arts
MUS 155 Percussion Ensemble
MUS 156 Jazz Ensemble
MUS 157 Alma Acapella
MUS 159 Chamber Music
MUS 351 Alma College Choir

Distinguished Scholarships & Specific Majors

Students who incur an overload charge due to course(s) required for their distinguished scholarship renewal will receive an exemption from the overload charge for that specific course. This may include distinguished vocal, distinguished instrumental, distinguished Scottish arts, distinguished dance, distinguished art performance, and distinguished theatre.

Also, Music Education majors and Music Performance majors (approved major declaration must be on record) can have up to 2 semesters of overload charges exempt, not exceeding 22 credits. Upon exhausting two terms of overload exemption, students will be charged per term for overloads as all other majors.

Class Attendance Requirements

Class attendance requirements are set by each individual

instructor. Among the options available is mandatory attendance, with absences resulting in a lower grade. Faculty members who do not implement a mandatory attendance policy will take measures to combat a common student misconception – that if attendance is not required (with penalties attached), it is not important. To this end, the syllabi for all classes will explicitly state the attendance policy.

Senior Audit & Graduation Application

Students must complete a senior audit with the Registrar's Office during the Fall or Winter Term prior to graduation. The audit reviews completed and remaining requirements for the student's degree and major. Results are shared with students and advisors before final clearance by department chairs.

Graduation applications are available to students upon completion of 84+ credits, or as a student registers for their final year of coursework. All students must apply for graduation via Student Planning by the fourth week of the fall semester in the academic year they intend to graduate.

Commencement Attendance and Participation

- The Commencement Ceremony is held each April to honor students who will complete their degree requirements within the academic year.
- Graduation refers to the conferral of one's degree after all requirements are met. Students may graduate in December (Fall), April (Winter), May (Spring), or August (Summer).
- Graduating student participation in commencement is required unless excused by the Registrar.

Diplomas

At commencement, students receive a certificate of degree candidacy. Official printed diplomas are mailed in the weeks following the ceremony once degree clearance is confirmed by the major department(s). Diplomas are not issued until all academic requirements and financial obligations to the College are fulfilled.

Regalia Policy

Graduating seniors are invited to acknowledge their academic achievements and participation in recognized leadership societies by wearing the following regalia- a stole, earned honor cords or pins and medallions- at commencement to showcase Alma's commitment to diversity and leadership. Cords for academic honors will be available in the Registrar's Office and stoles representing the cultural heritage or leadership societies will be distributed by respective offices within Student Affairs. Candidates may personalize their mortarboard but under the following provisions: No derogatory, indecent, profane images or words are allowed on mortarboards. Anything deemed offensive will not be tolerated and candidates will be asked to remove their

mortarboard. All other adornments and ornamentation including pins, flowers, necklaces, flags, brooches, etc. are not permitted. Graduates will be asked to remove any such adornments prior to entering the arena.

Withdrawal from Alma College

The College assumes that students who begin a semester intend to complete it.

Students may request to withdraw, also known as dropping all classes in a semester, from Alma College by contacting the Office of Academic Support to complete all required paperwork. A formal withdrawal allows the student the option to re-enroll at the College later. The official withdrawal date is determined by the Registrar's Office based on documentation and communication with instructors.

Students who do not formally withdraw forfeit any applicable deposits and refunds. Students who leave during a term without completing the withdrawal process may receive failing grades for enrolled courses and be Administratively Withdrawn. To return to Alma, students must complete a re-enrollment form with the Registrar's Office.

Students receiving financial aid who choose to withdraw must follow the federal refund policy, in accordance with federal regulations (see the Financial Aid section of this catalog for details). Adjustments to charges resulting from the withdrawal may create an outstanding balance on the student's account.

We also recognize additional types of withdrawal from Alma College including:

- I. **Administrative withdrawal:** If a student fails to communicate with the college as agreed during the leave, or otherwise fails to meet expectations for attendance, tuition payment, student conduct, or other factors, the college can initiate a withdrawal from the term. The college will first attempt to contact the student about the situation that must be remedied to prevent withdrawal.
- II. **Retroactive withdrawal:** If a student attempts to complete the term but is unable to do so due to extraordinary circumstances, and if there are serious, documented extenuating circumstances that prevented the student from withdrawing by the standard deadline, the student may petition to be withdrawn after the term has ended.
- III. **Partial withdrawal:** If a student is unable to complete some of their courses due to serious, documented extenuating circumstances, but would be able to complete others, the student can petition for a partial withdrawal. This means they can withdraw from one or more courses—but not all courses during the term.

Leave and Return Process

Students may experience circumstances out of their control that require them to attend to their health and

wellness goals during their academic journey. With approval, these circumstances may be deemed appropriate for a college-verified leave that may allow a student to temporarily take time away from Alma College, with a detailed plan to return within a maximum two-week period.

Alma College recognizes the following types of college-verified leave:

Short-Term Leave: allows students facing medical, personal, military, or other significant circumstances to temporarily pause enrollment for more than seven but fewer than fifteen consecutive days. This leave supports student well-being while maintaining eligibility to return.

Short-term leave requires institutional approval, which may include documentation, a return plan, and coordination with Financial Aid, Residence Life, and other offices. Students who do not return by the approved date will be administratively withdrawn.

Alma College recognizes the following types of leave:

Medical Leave: granted when physical or mental health concerns prevent academic participation.

- Medical documentation is required.
- Students may return once cleared by a healthcare provider and the College.
- Students must work with instructors to make up missed work and return on the approved date.
- Failure to return results in Administrative Withdrawal for the term.

Personal Leave: may be granted for non-medical issues such as family emergencies, bereavement, financial hardship, or major life events.

- Reviewed and approved by the Office of Academic Support.
- Students must make up missed work and return on the approved date.
- Failure to return will result in the Administrative Withdrawal process.

Military and Service Member Leave:

<https://www.alma.edu/admissions/military-and-veterans/>

Readmission Guidelines for Service Members

Steps to leaving Alma College when called to active duty, or when returning to Alma College from active duty. A continuing student receiving VA benefits and called to active duty must provide a copy of their military orders to the Financial Aid Office, who will then notify the VA of the student's new status. The Financial Aid Office will also notify both the Office of Academic Support and Registrar's Office as needed to assist the student. A student who has been attending classes prior

to being called to active duty must complete a Withdrawal Form through Self-Service. For guidance on how withdrawal will affect academic progress, the student should contact the Registrar's Office or Office of Academic Support while also utilizing their academic advisor.

Returning to Alma College from Active Duty

Alma College acknowledges that students may be temporarily unable to attend classes or be required to suspend their studies to perform uniformed service. We encourage such students to resume their education once a military service obligation has ended and adopt this policy to ensure the timely readmission of such students.

In accordance with federal regulations, 34 C.F.R. § 668.18 and the U.S. Department of Defense (DoD) Voluntary Education Partnership Memorandum of Understanding (MOU), Alma College will promptly readmit service members who seek readmission to a program that was interrupted due to a uniformed service obligation.

Eligibility

This policy shall apply to:

1. Service members who are unable to attend classes for more than 30 consecutive days; and Service members who are unable to attend classes for less than 30 days when such an absence would result in a withdrawal from Alma College.
2. A student is eligible for readmission under this policy if, during an absence, the student performs uniformed service, voluntary or involuntary, in the U.S. Armed Forces, including the National Guard or Reserve, active duty, active duty for training or full-time National Guard (under federal authority).

Notification of Intent to Return

A student must give written notice of intent to return to Alma College by completing a Readmission Application with the Alma College Registrar's Office no later than three (3) years after completion of their military service period, or no later than two (2) years after recovery for service members who were hospitalized or convalescing from an illness or injury incurred in, or aggravated during, their period of service. This form may be found online at <https://www.alma.edu/admissions/military-and-veterans/>

Upon the student's return to Alma College, they must give written notice they may be entitled to the tuition and enrollment benefits outlined in this policy.

The returning student is required to provide official military orders or supporting documentation of a uniformed service obligation to the Office of Financial Aid as far in advance as possible, unless precluded by military necessity. Notification under this section must be provided, by the student, to the FA Office, by emailing finaid@alma.edu.

Tuition and Fees

A returning student must be charged the same tuition and fees in effect during the last academic year the student attended, unless U.S. Department of Veterans Affairs (VA) education benefits or other service member education benefits will pay the amount in excess. For subsequent academic years, the returning student may not be charged tuition and fees over what other students in the program are charged.

Readmission Requirements

A returning student will be permitted to re-enroll in the next class(es) scheduled in the same academic program, unless the student requests a later date of re-enrollment or agrees to a different program. A returning student will be readmitted into the same academic program they were enrolled in before the military service obligation. If the exact program no longer exists, the student must be admitted to the program that is most similar. Returning students will be re-enrolled with the same enrollment status, number of completed credit hours, and academic standing as the last academic year of attendance.

In accordance with federal regulations, returning students who receive a dishonorable or bad conduct discharge from the U.S. Armed Forces (including the National Guard and Reserves) are not eligible for readmission under this policy. However, service members who receive dishonorable or bad conduct discharge may remain eligible for readmission even though they will not be entitled to the benefits outlined in this policy.

Students called to active duty or required military training may request military leave, reviewed and approved by the Financial Aid Office.

Service members facing unexpected deployment, mobilization, activation, or temporary duty may:

- Complete the term remotely, when feasible, after consulting instructors and the Provost Office, or
- Withdraw with nonpunitive "W" grades if completion is not possible.

Schedule Changes and Withdrawal from a Course

Students may adjust their class schedules during the first week of classes in a regular semester. During the second week, students may add courses only with permission from both the instructor and their academic advisor through the third business day of the second week. .

Course Withdrawal

Students may withdraw from an individual course through:

- the ninth week of a 14 week course, or
- the fifth week of a 7 week course.

See the published deadlines in the academic calendar.

Course withdrawals submitted after the ninth week of a 14-week course will receive a grade of “W”, indicating a nonpunitive withdrawal. A grade of “W” does not affect the term or cumulative GPA. Students should be aware that reducing their course load below 12 credits in a regular semester will result in athletic ineligibility for intercollegiate athletics and may affect financial aid.

After these deadlines, the grade of “WF” (punitive withdrawal) may be assigned.

An exception may be granted through an approved petition to the Academic Standards Committee, permitting withdrawal after the published deadline. The Academic Standards Committee, in consultation with the Provost’s Office and the Registrar, will make the final determination of whether the appropriate grade is “W” or “WF.”

Grading Practices

Grading System

The following letters and grade points are used to record evaluations of student work:

A	4.00
AB	3.50
B	3.00
BC	2.50
C	2.00
CD	1.50
D	1.00
DE	0.50
E	0.00

An “E” may be recorded for such reasons (other than failure to meet course requirements) as dishonesty, excessive absence or failure to comply with other conditions specified by the instructor.

Incomplete Grades

Incomplete (“IN”) grades must be replaced by letter grades within six weeks after the end of the term or they automatically convert to “E.”

Work in Progress

Work in Progress (“IP”) must be completed and graded within one year of the date of enrollment, or the grade automatically converts to “E” unless the instructor initiates Withdrawal Pass (“WP”) or Withdrawal Fail (“WF”). Work in Progress grades may be used only for independent study or

practicum courses. A grade of “Z” is assigned by the Registrar when a grade has not been received from an instructor and the grading period has closed..

Taking a Course with Pass / Fail Option

Students may elect the Pass/Fail Grade Option (“S” for Satisfactory or “F” for Fail) by filing the approved form with the instructor’s consent at the Registrar’s Office before the deadline to drop the class. Declaring to take a course under this option may occur through the 9th week of a 14-week course or the 5th week of a 7-week course by completing a request on an Electronic Form through Inside Alma.

- Under this option, students forfeit a course counting within their term or cumulative GPA. If the student elects this option, a student must earn a “C” or better to pass the course (entered as an “S” as the grade for Satisfactory). Grades earned below “C” will be entered as an “F” (failing, no credit). Neither grade is computed in the GPA, although both grades will be noted on the transcript as the course grade.
- The application of the “S/F” option is limited as described below:
 - This option is available only to students with sophomore, junior, or senior standing.
 - No more than 12 credits may apply to the 120 credits required for a degree.
 - No more than six credits per term may be elected under this option.
 - No course counting for a Teaching Major or Minor and no education course presented for teacher certification may be graded using this option.
 - No more than three credits within the major requirements may be graded under this option.

Note: Some classes are only graded “S” or “F”. Credits earned for these courses are not subject to the limitations described above.

Grade Reports

Two grade reports are made available to all students during the Fall and Winter Terms. Midterm grades are provided to all students at the established midpoint of the semester. Final grade reports are provided at the conclusion of each semester. Both midterm and final grade reports may be found within Student Planning through Inside Alma. Dates can be found on the academic calendar for both the midterm and final grade due dates.

Appeal of Grades

Appeal of grades may be made when the student has evidence that the final grade is unfair, but the appeal must be made not later than six months after the recording of the initial grade. The appeal proceeds first to the instructor, then to the department chair, and, if the disagreement still stands, it may go to the Provost.

Academic Progress

Classification of Students

Eligibility for some forms of financial aid, residential housing, and registration may depend upon progress toward the degree as indicated by these classifications.

Class Credits Earned

Classification	Credits Earned
Freshman	0-23
Sophomore	24-53
Junior	54-83
Senior	84+

ACADEMIC STANDING

Students are considered in good academic standing if they are not in jeopardy, probation, or have been academically dismissed from the college.

ACADEMIC GUIDELINES FALLING BELOW GOOD STANDING

A 2.0 cumulative GPA is required to earn an Alma College degree. A student may be dismissed for academic reasons if their cumulative GPA falls below the probation standards and, in the judgment of the College, jeopardizes their ability to complete a degree. The chart below outlines the GPA thresholds for each academic status, based on grade point deficiencies and attempted credits. Students are placed in the appropriate status when their GPA meets or falls below the listed criteria.

Credits Attempted	Dismissal	Jeopardy	Probation	Warning
1-17	-	1.25	1.75	<2.00
18-35	1.50	1.70	<2.00	-
36-52	1.80	1.90	<2.00	-
53-69	1.95	<2.00	-	-
70+	<2.00	-	-	-

Term GPA considerations - any student whose semester GPA falls below 1.00, regardless of overall cumulative GPA, will be placed on academic probation and will be required to meet with a staff person in the Office of Academic Support to discuss their academic performance.

Academic Dismissal

Placement on Academic dismissal is an involuntary separation from the College for at least one Fall or Winter Term. After this separation, the student must apply for readmission to return for a future term. Students already registered for a Spring Term course may remain enrolled to improve their cumulative GPA.

The readmission application must show convincing evidence of readiness to return—such as successful coursework completed elsewhere or a well-defined academic

plan. Dismissed students are encouraged to work with the Registrar and the Office of Academic Support to identify the best path to improve their GPA and continue progressing toward a degree.

A. First-Term Exemption

First-term freshmen and first-term transfer students are not subject to academic dismissal. Students may only be dismissed when a status of jeopardy, probation, or warning has been sanctioned after a previous term. In addition, continuing students cannot be placed on dismissal status unless they have previously spent at least one term on a status below good standing.

For example, if a junior has never been placed on jeopardy, probation, or warning and earns a cumulative GPA low enough to warrant dismissal, they will receive a one term exemption.

Students are not required to apply this exemption. Eligible students will be notified of permission to remain enrolled in the upcoming term, but under Academic Jeopardy status.

B. Appealing Dismissal

A student may appeal an academic dismissal decision to the Academic Standards Committee. Appeals must be submitted by completing the designated webform within seven calendar days of the Registrar's notification of academic status. The Academic Standards Committee will review each appeal and determine whether to approve or deny it. If an appeal is approved, the student may return for the next term under academic jeopardy status. Students may not appeal academic status placement of jeopardy, probation, or warning.

In accordance with Veterans Administration regulations, students receiving VA benefits who remain on probation for two consecutive terms may become ineligible for further benefit certification. To regain eligibility, the student must earn a 2.0 GPA.

C. Returning After Dismissal

A student who has been academically dismissed may apply for readmission after one semester of absence. The application must provide convincing evidence—such as successful coursework at another institution or a clear academic plan—demonstrating the student's readiness to return to Alma College. Students with questions may contact the Registrar.

Academic Jeopardy

Academic Jeopardy indicates *unsatisfactory progress toward the degree*. Students in this category may not be certified for athletic participation, Greek organization membership, or other student leadership positions. Students placed on Academic Jeopardy may remain enrolled for the next term under the following conditions:

1. **Academic Plan:** The student must work with their academic advisor and Office of Academic Support to create a plan for improving academic performance. This plan may include repeating courses, changing academic programs, participating in academic support services, meeting weekly with academic success staff, and/or reducing course load.
2. **Follow-up:** The student must complete an interview with an administrator in the Office of Academic Support to confirm understanding of and compliance with these conditions.
3. **Financial Aid:** Student must confirm eligibility for financial aid as this may be affected by being placed on Jeopardy.

Academic Probation

Placement on Academic Probation indicates academic concern but does not include the extracurricular restrictions associated with Academic Jeopardy or Academic Dismissal. However, eligibility for certain types of financial aid may be affected. Students placed on probation are encouraged to review and mitigate academic struggles with the Office of Academic Support and academic advisor to improve academic performance in the next term.

Academic Warning

This status applies only to first-term freshmen and first-term transfer students. It indicates a cumulative GPA below 2.00, but not low enough to qualify for probation status.

To remain in good academic standing and to stay on track for four-year degree completion, students are required to earn a minimum number of credits each academic year. Students who do not meet the established annual credit benchmarks will be placed on Academic Warning in accordance with the schedule outlined below:

Years of Enrollment	Credit Required
First Year (Semester 1 and 2)	27 credits
Second Year (Semester 3 and 4)*	56 credits
Third Year (Semester 5 and 6)*	86 credits
Fourth Year (Semester 7 and 8)	120 credits

*Upon completion of terms four and six, students should consider completing a Spring Term course.

Other Procedures

Academic Minors

Students may obtain a minor in some fields of study. The minor must be a combination of at least 18 credits, according to the requirements listed by the department. Minors must be declared on a Minor Declaration Form available on an Electronic Form through Inside Alma. The GPA for the prescribed minor courses must be at least 2.0 ("C") to be applied at graduation.

Repetition of Coursework

Repetition of coursework is permitted. In each case, the most recent effort is counted. Each effort is recorded on the student's permanent record. Students may repeat a course that they passed previously to try to improve the original grade; however, no additional credits are earned for the repeated course even if both courses earn passing grades. Courses taken for repeat must be approved by the Department Chair and Registrar's Office before enrolling in outside transfer work for repeat or through Acadeum. To be acceptable for repeat, courses taken as transfer credit outside of Alma College must earn a "C" or higher grade in accordance with transfer credit rules. Courses taken through Acadeum are considered "residential" and the most recent effort is counted.

Waiver Petitions

To secure waiver of College policies or graduation requirements, students may petition the Academic Standards Committee. Comments from the advisor and other concerned parties are often required before the petition is reviewed. Petitions forms are available on an Electronic Form through Inside Alma. Please reach out to the Registrar's Office for additional questions on filing academic petitions.

Academic Dishonesty

Honesty in academic endeavors is a central tenet of the Alma College philosophy. In view of the College's commitment to ethical integrity, it must take strong exception to behavior that is untruthful.

Academic dishonesty includes the following:

- Plagiarism
- Exchange of information on examinations
- Unauthorized assistance in the completion of an exam, essay, laboratory report, presentation, or other academic project
- Use of generative AI or machine learning in ways that violate an instructor's stated syllabus or assignment policy or the institutional policy described in the Student Handbook
- Any other attempt to deceive in order to receive an unearned grade.

Disciplinary Procedures

Disciplinary action following dishonesty is handled by the faculty member. It may result in failure of the assignment or the course. All infractions and actions will be reported to and documented by the Provost's Office. Repeated evidence of academic dishonesty may involve more severe penalties beyond those imposed by the instructor. These include restrictions on athletic eligibility and college-sponsored travel (including study away Spring Terms and performance ensembles), suspension, or expulsion from the college. .

Appeals Procedures

A student may appeal the instructor's decision to the Provost.

Special Programs

Interdisciplinary Programs

In addition to providing a solid foundation in basic skills and knowledge, the Alma curriculum offers students many opportunities to specialize. Students may choose from any one or a combination of 47 majors and interdepartmental majors, 33 minors, four different degree programs, and the ability to design a customized major (see self-designed major policy) aimed at a specific professional career.

Programs:

American Studies
Biochemistry
Environmental Studies
English (within the ECL Department)
Communication (within the ECL Department)
Neuroscience (within the PSY Department)
New Media
Nursing
Self-Designed Major
Public Health
Women's and Gender Studies

Off-Campus Study

Alma-approved off-campus study programs are those that have been reviewed and recommended by the Off-Campus Study Committee (OCSC), approved by the Educational Policy Committee (EPC), and reported to the faculty. Students approved by the OCSC to participate in Alma-approved off-campus study programs will remain enrolled at Alma College

during their term(s) of study, enrolled in an off-campus study placeholder course, and receive Alma College grades for approved coursework upon completion. Alma grades are applied by the Registrar's Office in accordance with grade equivalency tables that have been approved by the Academic Standards Committee. These courses are considered Alma College credit completed 'in residence', not transfer credit. Students may elect the Satisfactory Grade Option, as outlined in the academic catalog, if they file the approved form by the Drop/Add deadline or an appropriate equivalent timeframe, pro-rated if necessary, in accordance with the length of the off-campus study program.

Grades from Non-Alma Off-Campus Study Programs- Students may petition the Off-Campus Study Committee for approval of programs not on the Alma-approved list. Petitions must include review by at least two faculty members who attest that the program meets Alma standards for quality and academic rigor. If approved to participate in a non-Alma program, students would remain enrolled at Alma during the term off-campus and enrolled in an off-campus study placeholder course. When assigned upon their return, grades returned from non-Alma programs are assessed Pass/Fail credit by the Registrar's Office in accordance with the transfer credit policies.

Pre-Professional Programs

With numerous opportunities to choose from, Alma graduates have many ways to prepare for satisfying careers in a wide range of professions.

Programs:

Education
Military Service: ROTC (in partnership with Central Michigan University)
Pre-Dentistry
Pre-Engineering
Pre-Law
Pre-Medicine
Pre-Occupational Therapy
Pre-Optometry
Pre-Pharmacy
Pre-Physical Therapy
Pre-Physician Assistant
Pre-Sports Medicine
Pre-Veterinary

Academic Honors

Dean's List

To qualify for the Dean's List, a student must:

- Earn a term GPA of 3.5 or higher;
- Be enrolled in at least 12 credits for the term;
- Have at least 6 of those credits graded A–E (not Pass/Fail).

The Dean's List is compiled at the end of the Fall and Winter semesters by the Registrar's Office. Students given an Incomplete (IN) or In-Progress (IP) grade will be assessed when all coursework is complete.

Departmental Honors

Students must achieve a minimum 3.5 GPA in the major field to graduate with Departmental Honors, while also completing and disseminating an honors-caliber thesis project. Typically, such dissemination includes presenting at the annual Honors Day. Each department has autonomy to determine what constitutes an honors-caliber thesis project and may include any additional criteria in the major requirements listed within the academic catalog.

President's Outstanding Senior Award

The President of Alma College may select seniors who have completed four full (Fall or Winter) semesters at Alma College and demonstrated scholastic superiority to receive the President's Outstanding Senior Award.

President's Award

Juniors, sophomores and first-year degree-seeking students who have been at Alma College for one academic year and who attain the highest academic ranks in their classes based on GPA receive the President's Award.

Graduation Honors

Graduation Honors are awarded to undergraduate seniors who have completed at least 48 credits at Alma College:

- Summa cum laude to students who have achieved a 3.90 cumulative GPA
- Magna cum laude to students who have achieved a 3.70 cumulative GPA
- Cum laude to students who have achieved a 3.50 cumulative GPA

Barlow Trophy

Alma's most prestigious award for graduating undergraduate students, the Barlow Trophy is awarded on the basis of scholarship and leadership. Candidates must rank in the top 10 percent of the graduating class as determined by the Registrar. Recipients are selected by a vote of the College faculty and Student Congress. Barlow winners are recognized at the annual commencement ceremony.

Honors Program

The Alma College Honors Program is designed to encourage students to discern and cultivate their interests, passions and abilities; encourage independent research and close relationships with faculty members; promote academic mastery and excellence; welcome challenging conversations; and provide leadership in a community that provides space for everyone to grow and thrive. Program requirements for the Honors Program can be found under HNR within this catalog.

Requirements for Degrees

Alma College Credit

The semester credit hour is the official unit of instruction at Alma College. One semester credit hour represents an amount of work, defined by intended learning outcomes and verified by evidence of student achievement, that is equivalent to at least one class hour of direct faculty instruction (a class hour is defined as 60 minutes) plus a minimum of two hours of out-of-class work each week, delivered over a 14-week semester.

In addition to the standard weekly format, courses may also meet in a variety of compressed formats of varying lengths, provided they fall within the beginning and ending dates of a given semester, Spring Term, or Summer Term.

Contact Hours for Undergraduate Courses by Instructional Method

Classroom-based Courses

(e.g., lectures, seminars, labs and studios)

Must meet in person for a minimum of 60 minutes per credit per week for 14 weeks. Beyond this minimum, instructors are expected to assign coursework equal to 120 minutes per week for each academic credit (for a total of 180 minutes per credit hour per week).

Blended and Non-classroom-based Courses

(e.g., hybrid or online courses)

Must include instruction, homework, and/or student activities that equal a minimum of 180 minutes per credit per week over the full 14-week semester.

Individualized Instruction

The 180-minute requirement per credit hour per week also applies to individualized methods of instruction, such as independent studies, internships, and directed reading courses that confer academic credit.

Spring Term Courses

Courses offered during Spring Term take advantage of the “one course at a time” format to provide students with immersive learning opportunities. Regardless of delivery method, Spring Term courses are typically 3 credits and are offered in a compressed format (e.g., 19 days for Spring Term). These courses meet for the same total time commitment as a 14-week course of equal credit.

Major Declaration

Each student must declare a major field of study before the end of the sophomore year by completing the major declaration form found at the Registrar’s Office and online through Inside Alma. Students may select a Departmental Major (at least 27 credits as prescribed by the department), an Interdepartmental Major (42 credits in

courses approved by two or more departments and the Educational Policy Committee), or a Self-Designed Major (42–60 credits) in courses selected by the student to meet a specific educational goal as approved by the Registrar and Educational Policy Committee no later than March of the sophomore year.

Students are required to earn at least a 2.0 (“C”) cumulative GPA in their chosen major field of study for the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, and Bachelor of Music degrees. The Bachelor of Science in Nursing degree requires a 2.5 cumulative GPA and a minimum 3.0 GPA in all nursing (NUR) courses. For teacher certification purposes, a 2.75 GPA is required for all coursework, and a 2.5 GPA in all Education courses. Additional certification and other requirements are found in the Education Department section of this catalog. To satisfy degree requirements, courses completed outside the major area must total a minimum of 60 credits.

Self-Designed Major

Any highly motivated student with specific career and/or academic goals that cannot be met by enrolling in another established major at Alma College may apply for a Self-Designed major. Students will not be approved for Self-Designed majors that cannot be supported by currently offered coursework at Alma College. Major requirements must meet minimum standards of credits and be comprised of 42–60 credits.

With the assistance of a faculty advisor, students should apply for a Self-Designed major by March 1 of sophomore year. Application should be made to the Registrar’s Office and include an essay explaining the student’s goals and how the major will help achieve them. Also included should be a letter of reference from the faculty advisor and clear major requirements to be completed. The student and faculty member may be asked to present to the Educational Policy Committee (EPC) to discuss the major. Student progress will be monitored by the Registrar’s Office. Any changes to major requirements must be provided in writing to the Registrar’s Office and approved by the faculty mentor and EPC.

Cumulative Grade Point Average

The cumulative Grade Point Average (GPA) must be at least 2.0 for all degrees. This average is based only on grades achieved at Alma College or in its programs. Grades earned at other institutions are not incorporated into this evaluation. Credits earned with a grade of “C” (2.0) or better at other institutions and accepted for transfer by Alma College will count toward the 120 credits required to earn a bachelor’s degree. If various departments require higher than a 2.0 GPA to complete the major, this information will be noted within the departmental requirements within this catalog.

Degrees Awarded

Degrees are awarded at the end of the term in which the student completes all requirements; a formal commencement program is held only at the end of the Winter Term. The College awards the following degrees, which require total credits as listed:

Bachelor of Arts	120 credits
Bachelor of Fine Arts	120 credits
Bachelor of Science	120 credits
(To earn a B.S. degree, 60 of the total 120 credits earned must be in designated Science and Mathematics courses; specific requirements for the B.S. degree are available in the Registrar's or within the Academic Affairs Sharepoint site.)	
Bachelor of Science in Nursing	120 credits
Bachelor of Music	141–153 credits
(Specific requirements for the B.M. degree in Music Education are listed in the Music section of the catalog.)	
Master of Arts	See Graduate Program Guide
Master of Fine Arts	See Graduate Program Guide

Earning an Additional Bachelor's Degree

A student may earn more than one bachelor's degree if:

1. The degrees are different.
2. The student completes a minimum of 150 credits.
3. The student completes all requirements for both degrees.

Note: Students who earn a Bachelor of Music degree cannot also earn a Bachelor of Arts degree unless they qualify on the basis of a major other than music.

Students who desire multiple degrees must notify the Registrar's Office by the end of the term prior to the one in which they plan to graduate. All degrees for which a student qualifies are awarded as completed.

Double-counting Credits

A student may count up to six credits of one major or minor in a different major or minor when those courses appear within the requirements, unless a department states otherwise within a departmental listing. If a course is a required prerequisite or cognate to a major, it is automatically available for application to a different major or minor when that course appears within the requirements.

Graduation Requirements and Full-Time Enrollment

The minimum number of Alma credits required for graduation is 120. A full-time student shall take between 12 and 17 credits in each Fall or Winter Term, with 15 credits being a standard load to graduate in four years, and work beyond 17 credits constituting overload. Full-time enrollment shall be 3 credits in each Spring Term, two Spring Terms are required to graduate.

Limitations

Of the 120 minimum credits required for a degree, students may apply up to the following number of credits from the classes listed here:

1 credit	Strategic Learning (ACP-100)
8 credits	Music 151, 152, 153, 153G, 154, 155, 156, 157, 158 and 159A-159V
8 credits	Exercise Health Science (EHS-165)
8 credits	Dance (DAN-151)
8 credits	Practica and Internships – numbered 385 or 386 in a single department
15 credits	Independent Study – numbered 199, 299, 399, 499 and 500s
15 credits	Academy Consortium Approved Courses

Academic Residency Requirement

Academic Residency is defined as the number of credits a student must complete while enrolled at Alma College to be eligible for a degree. Students must complete a minimum of 46 credit hours at Alma College to earn a bachelor's degree. Credits taken as a part of an approved Alma College Program may also qualify as residential and count toward this total.

Spring Term Requirements

Students must complete two Spring Term courses (total of 6 credits) as part of our core curriculum requirements for graduation. Each course typically carries 3 credits, one course per Spring Term is considered typical enrollment and full-time within the term. Transfer students entering with 24 or more credits (sophomore standing) are required to complete only one Spring Term course.

Courses offered during Spring Term take advantage of the "one course at a time" format to provide students with immersive learning opportunities that encourage deep academic engagement with a topic, project, or place in ways not possible during the Fall or Winter Terms. The format supports forms of study that benefit from sustained attention and that may extend beyond the traditional classroom. Many Spring Term courses cross disciplinary, cultural, or geographical boundaries.

Statute of Limitation for Degree Requirements

If candidates are unable to fulfill all requirements, including requirements for teacher certification, by August 30 of the year of graduation, a five-year grace period is allowed for completion of deficiencies. This grace period is further defined as a maximum of nine years after the date of initial enrollment at Alma College. After the five-year period, the student must re-apply for candidacy and have his/her record re-evaluated under the requirements then in force. If those requirements are significantly different, the

candidate may be required to complete additional work for the degree and/ or teaching certificate. Certification requirements are subject to change by action of the State Board of Education and may not be reflected in this catalog.

Upper-Level Course

Students graduating with a bachelor's degree at Alma College must complete a total of 39 credits of upper-level coursework, determined as 200-level or above. Upper-level courses are beyond the introductory level and may or may not have prerequisites. These courses typically require students to have some college experience or a maturity of skills in critical thinking.

- 100-level courses introduce basic skills, techniques, concepts, or questions of the field; some 100-level courses do have prerequisites, and students are advised to consult the description for each course.
- 200-level courses are beyond the introductory level and continue the introduction to the field or focus on a major area in the field. Such courses may or may not have departmental prerequisites but are designed for students with some college experience or other appropriate academic preparation.
- 300-level courses are advanced courses that depend on previously learned knowledge and/or skills in the discipline or a maturity of skills in critical thinking. In such courses, students are asked increasingly to employ the tools of the discipline in response to basic questions. Ordinarily these courses have prerequisites or require junior standing.
- 400- and 500-level courses are typically seminars, theses, capstones, or primarily for students focused in that discipline. These courses require students to do more independent work, often involving the creation or synthesis of knowledge using previously learned skills.
- 600-level and above are graduate level courses.

Transcript Policy

In compliance with executive order from July 1, 2024, "Federal regulations no longer allow colleges that receive federal financial aid to withhold transcripts for course credits paid for with federal money. Some experts have said that could amount to a national ban on the practice. That's because it will be difficult for institutions to determine which credits were paid for with federal money and then provide transcripts for only those courses."

It will be the College's policy to not withhold any transcript for financial reasons, however, upon release of a transcript to a student with a financial hold, that student's account balance will be turned over to collections immediately.

The Registrar's Office will be adding a code of TRR (Transcript: DOE Release) to any student in this situation. This allows Financial Services to run a report identifying the students and sending the accounts to collections.

Guide to Core Curriculum Requirements

First Year Seminar (FYS) 2–3 credits

All first-year students entering Alma College and incoming transfer students with fewer than 24 credits awarded will take FYS-101 First-Year Seminar, typically taken during the first term of enrollment.

Competency and Badged Courses

Students must meet the competency and complete badge courses in each of the areas below. Competencies must be met prior to taking badged courses.

Writing (WI) 3–6 credits

1. Students must demonstrate proficiency in college-level writing. Students may demonstrate proficiency in the following ways: completing ECL-101 with a C or better, or earning transfer, IB or AP credits that are equivalent to ECL-101.
2. Each student will also successfully complete a minimum of three credits of 200- or 300-level writing intensive course-work that focuses on writing and research within a discipline.
3. These courses are badged WI.

Second Language and Global Cultural Awareness (GCA) 3–6 credits

1. All students must demonstrate at least novice-high proficiency in a language other than English. Students can demonstrate proficiency in the following ways: completing a college language course at Alma College of a sufficient level; earning transfer, IB, or AP credits equivalent to these Alma classes; attaining a sufficient score on the language proficiency exam; or earning The Global Seal of Biliiteracy
2. Each student will also successfully complete a minimum of three credits of work in courses designated as global cultural awareness.
3. These courses are badged GCA.

Mathematics and Quantitative Reasoning (QR) 3–6 credits

1. All students must demonstrate proficiency in college-level mathematics. Students may demonstrate proficiency in the following ways: completing a college math course at Alma College (MTH 110 or higher excluding MTH 203, 204, 205, and 206); earning transfer, IB, or AP credits that are equivalent to MTH 110 or higher; or attaining a sufficient score on the math placement exam.
2. Each student will also successfully complete a minimum of three credits of work in courses designated as quantitative reasoning.
3. These courses are badged QR.

Explore 12 credits

1. Students will take at least three credits in each of the four explore areas:
EXP1 Making and Understanding the Arts
EXP2 Examining Self and Society
EXP3 Applying Scientific Thinking
EXP4 Fostering Community and Belonging
2. These courses should be taken in the first or second years.
3. These courses will be from four different subjects.

Themes 9 credits

1. Students will take three courses from a theme, to include:
THM1 The Stories that Made Us
THM2 Cultures and Identities
THM3 Persuasion and Belief
THM4 Rights and Responsibilities
THM5 Uniquely Human
THM6 Our New Earth Reality
THM7 Beauty
2. At least six of these credits should be upper-level, numbered 200-level or higher.
3. These courses will be from three different subjects.

Interdisciplinary Seminar (IDS) 3 credits

1. All students will take three credits of an Interdisciplinary Seminar in their third or fourth year.
2. These courses must be taken at Alma College.
3. These courses are badged IDS.

Note: All courses badged Writing Intensive (WI) and / or Global Cultural Awareness (GCA) in the core curriculum are automatically given the previous general education designations of Quill and International Awareness, respectively.

Spring Term 6 credits

1. All students will take two Spring Term courses to graduate from Alma College.
2. These courses take advantage of a unique one-course-at-a-time model in an intensive 4-week term.

General Education Goals

The purpose of the general education program is to ensure that all students can understand and apply a wide range of disciplinary and interdisciplinary approaches in the liberal arts – arts, humanities, social sciences and natural sciences – and to explore questions and problems they encounter. The following overarching goals shape the general education curriculum.

1. Thinking – Students comprehensively evaluate issues, ideas, artifacts, and events through observation, experience, analysis, synthesis, and reflection before accepting or formulating an opinion or conclusion.

2. Interpreting – Students demonstrate an ability to interact with, comprehend, interpret, evaluate, and respond to a variety of complex texts (visual, literary, mediated, quantitative, embodied, etc.) with appropriate strategies and with attention to context.

3. Communicating – Students communicate effectively and clearly, demonstrating an understanding of context, audience, purpose, genre, and discipline in both written and oral communication.

4. Engaging – Students recognize their own place within a cultural context, demonstrate an understanding of the patterns and power structures that shape the communities they work with, and can apply tools that ensure they can engage meaningfully and ethically with people of other backgrounds, languages, experiences, and beliefs across the spectrum of differences in order to adapt empathetically and with flexibility to unfamiliar ways of being.

Courses of Instruction

Courses listed in this catalog are subject to change. New courses and changes in existing courses are initiated by the appropriate departments or programs, and approved by the Provost, the Educational Policy Committee and the faculty.

Academic Divisions & Courses of Instruction

Humanities

Academic and Career Planning (ACP)	Art & Design (ART)	Arabic (ARB)
Dance (DAN)	Design (DES)	English Culture & Language (ECL)
First-Year Seminar (FYS)	Honors Program (HNR)	Humanities (HUM)
Interdisciplinary Seminar (IDS)	Library Research (LIB)	Music (MUS)
New Media (NMS)	Philosophy (PHL)	Religious Studies (REL)
Spanish SPN)	Women & Gender Studies (WGS)	World Languages & Cultures (WLC)

Natural Sciences

Astronomy (AST)	Biochemistry (BCM)	Biology (BIO)
Biotechnology (BTC)	Chemistry (CHM)	Computer Science (CSC)
Data Analytics (DAT)	Engineering (EGR)	Environmental Science (ENV)
Geology (GEO)	Health Studies (HSS)	Integrated Science (ISC)
Kinesiology & Health Science (KHS)	Mathematics (MTH)	Nursing (NUR)
Physics (PHY)	Psychology (PSY)	

Social Sciences

Accounting (ACC)	American Studies (AMS)	Business (BUS)
Economics (ECN)	Education (EDC)	Geography (GGR)
History (HST)	Political Science (POL)	Sociology (SOC)
Sport Leadership & Coaching (SLC)		

Accounting (ACC)

Accounting Major Requirements

Forty-eight credits, which must include:

General Business Courses (24 credits):

1. BUS-117 and BUS-121;
2. ECN-217 or BUS-317;
3. Choose any 15 credits from the following:
BUS-225, 309, 323, 333, 415, ECN-111, 112, 317, 332,
MTH-116 or PHL-227.

Accounting Courses (24 credits):

1. ACC-221, 222, 331, 422, 442, and 449;
2. ACC-321 or ACC-322;
3. ACC-425 or ACC-426.

ACC 221 Financial Accounting

3 cr

General survey course that introduces the study and application of the basic concepts and methods used in developing and reporting financial information about an economic entity. Emphasis on developing the ability to interpret and apply accounting information to the decision-making process. Course fee.

Prerequisite: BUS-117

ACC 222 Managerial Accounting

3 cr

Study of accounting with emphasis on cost accounting, cost-volume-profit, budgeting, capital budgeting and decision making. Emphasis on how cost and managerial accounting concepts apply to decision making and management analysis. Course fee.

Prerequisite: ACC-221, BUS-117, BUS-121.

ACC 321 Intermediate Accounting: Assets

3 cr

In-depth study of theoretical framework, concepts and methods relating to financial accounting, with special attention given to asset measurement and income determination. Emphasis on developing analytical and problem-solving skills.

Prerequisite: ACC-221

ACC 322 Intermediate Accounting: Liabilities

3 cr

Thorough and balanced study of theory, concepts, methods and applications relating to financial accounting with special attention to debt and owner equity measurement and disclosure. Emphasis on earnings per share calculation and accounting for leases and pensions.

Prerequisite: ACC-221

ACC 331 Intermediate Managerial Accounting

3 cr

For service and manufacturing sectors, study of cost accounting systems and cost information including objectives, data accumulation, presentation and communication. Emphasis on cash flow, cost behavior and allocation, management planning and control, breakeven analysis and variance analysis useful in decision making.

Prerequisite: ACC-222

ACC 385 Accounting Practicum

1-3 cr

A practicum is a supervised college course that allows students to apply classroom theories to the real-world, hands-on professional settings. Only three credits will count in the major. Pass/Fail Only. *Prerequisite: Junior Standing, ACC-221, ACC-222, BUS-117, and BUS-121; Departmental permission*

ACC 422 Advanced Financial Accounting

3 cr

Accounting for partnerships, governmental units, not-for-profit organizations, corporate consolidations, foreign currency transactions and translation of foreign financial statements.

Prerequisite: ACC-321 or ACC-322

ACC 425 Federal Individual Income Tax

3 cr

This course covers the federal income tax laws and regulations impacting individuals. Topics covered include: personal and dependency exemptions, gross income, deductions, losses, tax credits property transactions and federal gifts taxes. Students gain analytical and problem-solving skills for dealing with individual income tax issues.

Prerequisite: ACC-222

ACC 426 Federal Business Taxation

3 cr

Explore corporate operating rules, capital structure, distributions, reorganization, partnerships, S-Corporations, exempt entities, tax administration and practice, and multi-state and international transactions. Gain analytical and problem-solving skills for dealing with business tax issues.

Prerequisite: ACC-222

ACC 442 Accounting Information Systems

3 cr

Study of accounting information systems, including systems analysis, design and implementation. Emphasis on design and documentation tools and internal controls. Focuses on the needs and responsibilities of accountants as end users of systems, system designers and auditors.

Prerequisite: ACC-321 or ACC-322.

ACC 449 Auditing

3 cr

Study and evaluation of the nature, objectives, scope and theory of the audit process as applied to accounting and internal control systems. Emphasis and balance placed on standards, ethics, current developments and legal requirements as well as special topics including statistical sampling and audit of electronic data processing systems.

Prerequisite: ACC-322 and Senior Standing

ACC 500 Senior Thesis

3 cr

Student must have a GPA of 3.5 or better calculated on all ACC courses taken.

Prerequisite: Senior Standing

Academic and Career Planning (ACP)

ACP 100 Strategic Learning

1 cr

This course is designed to assist students in developing the skills necessary to be successful in college. It will help you develop a personal academic success plan, understand how to utilize the resources at Alma College, identify and leverage your individual learning style, as well as enhance both your time management and study skills. *Limitation: only one credit of ACP-100 is permitted to count toward graduation requirement. Pass/Fail Only.*

American Studies (AMS)

American Studies Minor Requirements

Twenty-four credits, which must include:

1. Core: AMS-101, 102, 301, and 12 credits from the following (no more than one course per department): ECN-111; ECL-252 or 253; HST-104, 105, 228; POL-101; and SOC-101.
2. Advanced Electives: 6 credits from the following (no more than one course per department): ECL-366; HST-277, 323, 325, or 326; POL-231, 325 or 336 or other approved (with substantial American content) topics courses (e.g., African American literature or religion, Native-American literature, etc.) AMS independent study or practicum is subject to approval of the Provost or AMS coordinator.

AMS 101 Introduction to American Studies

2 cr

Focuses on the multi-disciplinary perspectives needed to understand the complexity of "the American experience(s)."

Prerequisite: First year or Sophomore Standing

AMS 102 Perspective American Experience

2 cr

Focuses on seminal sources for deepening one's perspectives on "America."

Prerequisite: First year or Sophomore Standing

AMS 120 Superheroes & Identity

EXP2

3 cr

Stan Lee himself once said Superheroes, like Jazz, were a uniquely American creation. This class examines that statement by studying superhero and supervillain archetypes in multiple media. The class will explore how these 4-color characters are both rigid representations of morals and ideals while also analyzing how they stretch, mutate, and ultimately evolve to better reflect an ever-changing society.

AMS 301 American Studies Seminar

2 cr

Open only to students who have completed or are concurrently enrolled in the completion of 23 credits toward the AMS minor.

Prerequisite: AMS-101 and AMS-102.

Arabic (ARB)

ARB 111 Beginning Arabic I

3 cr

This introduction to Arabic places emphasis on all four basic skills: speaking, listening, reading and writing. Secondary objective provides insight into cultures and societies where Arabic is spoken.

ARB 112 Beginning Arabic II

AH

3 cr

Continued study of spoken and written Arabic. Development of basic communicative skills, both in standard modern written form and as a spoken dialect. Deeper exploration of contemporary Arab culture.

Prerequisite: ARB-111

Art and Design (ART)

Alma College offers both the Bachelor of Arts (B.A.) and the Bachelor of Fine Arts (B.F.A.) programs within the Department of Art and Design. These programs are designed for students seeking a broad overview of various media within the Studio Arts and is often combined with other majors.

The Bachelor of Arts (B.A.) in Art and Design Program

B.A. in Art and Design Major Requirements

Thirty credits, which must include:

1. Core Requirements (15 credits): ART-101, 150, 201, 202 and DES-131;
2. 3 credits in upper-level Art History;
3. 6 credits of ART electives;
4. ART-501 and 502.

Drawing & Painting Studio Area: ART-162; 262; 361; 362; 461; 462; 500.

Photography Studio Area: ART-126; 226; 326; 426.

An emphasis in Animation, Graphic Novel and Comic Design is available through our partnership with Duncan of Jordanstone College of Art and Design (DJCAD) at the University of Dundee in Scotland.

In addition to the above coursework required for the major, students wishing to continue in Animation should take ART-162, 228, 253, and NMS-232 to prepare for their semester or year-long experience in Scotland during their Junior year.

The Bachelor of Fine Arts (B.F.A.) in Art and Design Program

This is a pre-professional program designed for those who seek employment in the field of art and design or are advancing to graduate school. The B.F.A. is a breadth of knowledge across art and design disciplines with two selectable specializations: (1) Drawing and Painting or (2) Design.

B.F.A. Requirements: Acceptance into the B.F.A program requires submission of a portfolio to the department for approval. The portfolio is to be submitted in November of the candidate's junior year. B.F.A. candidates must have a 3.0 Major GPA in art and design.

B.F.A. in Art and Design Major Requirements

Sixty credits total, to include thirty-six credits of B.A. core and twenty-four credits within one selected concentration.

Thirty credits, which must include:

1. Core Requirements (15 credits): ART-101, 150, 201, 202, and DES-131;
2. 3 credits in upper-level Art History;
3. 6 credits in ART electives;
4. ART-501 and 502.

In addition to the Art & Design core, students pursuing the B.F.A. degree must select one eighteen credit concentration:

Drawing and Painting B.F.A. Concentration:

Eighteen credits, which must include:

1. ART-162, 262, 281, 361 or 362;
2. Advanced Studio Requirement (6 credits): ART-461 and 462.

Design B.F.A. Concentration:

Eighteen credits, which must include:

1. DES-101, 231, 245, and 284;
2. Advanced Studio Requirement (6 credits): Chosen from DES-331, 401, or 431.

Art Minor Requirements

Eighteen credits, which must include:

1. ART-101, 150, 201, 202, DES-131;
2. 3 credits of Studio Art/Design courses.

Drawing and Painting Minor Requirements

Eighteen credits, which must include:

1. ART-101, 161, 262, 361, 362, and 461.

Transfer Credits in Studio Art

Up to three studio art courses may be included in the major by transfer from an accredited institution. Transfer of upper-level studio work will require Departmental review. Please discuss the transferability of coursework with the Registrar's Office and the Art & Design department.

ART 101 Drawing I

AH EXP1 3 cr

Through observation, this class will concentrate on the essential elements of drawing, its materials, and methods. This is an introductory-level class, which prepares the student for higher levels of visual problem-solving. Course fee.

ART 109 Greek Myth & Classical Art

AH 3 cr

The ancient Greeks told their famous stories of themselves and their history in both the intimate spaces of vase painting and in the more public displays of sculpture. We will examine images of Greek Myth by asking: How was export vase ware to be read by their Greek and non-Greek audiences? How do we determine the referents of those images, when the myths had not yet been recorded in texts? How did viewers encounter, read and understand their highly decorated temples? The course will also engage later Hellenistic and Roman works.

ART 120 Two-Dimensional Design

AH EXP1 3 cr

Investigation of foundational elements and principles of visual design as the basic building blocks for visual art and communication. Critical thinking skills, as they apply to studio art, are explored using traditional and digital techniques. Course fee.

ART 126 Intro to Digital Photo

AH EXP1 3 cr

Introduction to digital photography. Students will learn the functions of camera bodies and lenses, a basic understanding of editing software, and the ability to think critically about what makes a "good" photograph. This course will focus on creative techniques accomplished both in camera and during post processing. A digital camera with manual settings is suggested, but not required. Course fee.

ART 127 Black & White 35mm Film

AH 3 cr

Introduction to the process of photographing on 35mm film and the basics of darkroom developing and printing. Students will learn technical control, creative expression, and engage in critique thinking about the aesthetic and historical value of analog photography. Students will practice precision and patience due to the limited nature of film. Open to students with no prior photography experience. A traditional 35mm SLR film camera is suggested but not required. Course fee.

ART 150 3-Dimensional Design

AH EXP1 3 cr

Introduction to studio work with emphasis on exploring a variety of materials in three-dimensions in solving visual and spatial problems. Line, volume, mass, scale, composition, plane, as well as other elements of design will be utilized in investigating form. Course fee.

ART 161 Painting I

AH EXP1 3 cr

This course is an introductory course discussing basic concepts of painting in oil. Focusing on value, minimal color, space and developing observational skills. Course fee.

ART 162 Figure Drawing I

AH THM5 3 cr

An introductory drawing course using the human body to discuss proportion and space. Much of the class will focus on developing drawing technique and observational skills for naturalistic rendering. Course fee.

ART 171 Printmaking I

AH 3 cr

This course will explore the basic printmaking methods and their art historical significance. The students will gain basic knowledge of techniques and vocabulary that will further develop their artistic expression through the creation of the multiple print and/or presentation processes. We will cover Monotype, Collagraph, Relief, and Dry point Etching using a more contemporary, less toxic process. Course fee.

ART 181 Art and Mindfulness

AH 1 cr

Are you looking for creative avenues to relieve stress and stay rooted in the present moment? Engage with visual arts exercises aimed at fostering skills in mindfulness. Creative practice will be accompanied by exploration of the theories and philosophies behind the techniques.

ART 182 Storytelling with Images

AH 1 cr

How can you use images to tell a story with meaning and impact? Analyze comics, graphic novels, and illustrated books while telling visual stories of your own. This course will provide a sampling of the processes behind these storytelling techniques and culminate in crafting a complete illustrated tale as a class.

ART 201 History of Art I

AH THM7 3 cr

In this course we will explore what it means to be human through the study of art and design. We will examine works of art from visual cultures across the globe, from the earliest records to the Medieval period, to analyze concepts of identity, social structure, and power structures, including discussions of class, gender, and race/ethnicity. Course fee.

Prerequisite: ECL-101

ART 202 History of Art II

AH THM7 3 cr

In this course we will explore what it means to be human through the study of art and design. We will examine works of art from visual cultures across the globe, from the Renaissance through the 20th century, to analyze concepts of identity, social structure, and power structures, including discussions of class, gender, and race/ethnicity. Course fee.

Prerequisite: ECL-101

ART 212 Survey of Renaissance Art

AH 3 cr

Introduction to the visual cultures of the Renaissance in Northern and Southern Europe, with an emphasis on the context in which the arts were produced. Surveys of Renaissance history, literature and religion are included to enrich students' comprehension of the artworks. Course fee.

ART 213 Survey of Modern Art

AH THM1 3 cr

Survey of the visual cultures of Europe and the United States that gave rise to "Modernity," with an emphasis on the theory of its development and the cultural contexts in which it occurred. The course covers the arts produced from 1840 to 2001 and includes careful consideration of the different art movements that comprise modern art. Course fee.

ART 215 Contemporary Art

AH 3 cr
Introduction to the major artistic movements and critical theory in the last two decades. Students spend approximately one week in New York City, or other appropriate large city in the U.S or overseas exploring galleries, museums, and artists' studios. Seminar includes readings, discussion, and a research paper on a special topic. Course fee. Spring Term only.

ART 216 Art Appreciation

AH GCA THM1 THM7 3 cr
General introduction and exploration to arts and design. Students will experiment, research and write on multiple art processes, basic 2D and 3D techniques, theories, and survey history of modern visual forms. This course is appropriate for students with little to no art and design experience. The class is designed to familiarize students with diverse ways of making art and learning how to speak and write intelligently about art and design.

ART 221 Narrative Photography

AH 3 cr
Explore photography as a tool for visual communication across commercial, editorial, fine art, and journalistic contexts. Students will learn to create persuasive, brand-focused images for marketing, develop concept-driven work for fine art and editorial settings, and document real-world events through photojournalism. Emphasis is placed on both technical skills and the development of compelling visual narratives. Course fee.

Prerequisite: ART-126 and ART-127

ART 226 Photography II

AH 3 cr
Introduction to basic 35mm photography including black and white film and darkroom techniques. Students will learn all aspects of the camera body, lenses, and how to properly use them. Students will photograph with standard 35mm film cameras then process and print black and white film in the darkroom using traditional paper and chemistry. They will focus on photographing with intention using a limited amount of film. A traditional 35mm SLR film camera is suggested but not required. Course fee.

Prerequisite: ART-126

ART 228 Lighting Studio

AH 3 cr
Introduction to studio lighting concepts and techniques for still life, portraiture, documenting artwork, and commercial uses. These techniques are applicable to film, video and still images. Course fee.

ART 253 Figurative Clay Sculpture

AH 3 cr
An introduction to building figures and animals in clay. Through the use of visual references, there will be a focus on understanding measurement, alignment, and proportion. Narrative development and content exploration will be supported by class discussions, lectures, and independent research. Works will be prepared for kiln firing and will be surfaced with glazes and paint. Course fee.

ART 262 Figure Drawing II

AH 3 cr
This course is an advanced drawing course, which reaffirms practice in proportion, space, drawing techniques and observational skills applied to the figure. In addition, this course will discuss various materials, color, scale, and concept. Course fee.

Prerequisite: ART-101 and ART-162 or permission

ART 281 Visual Culture

AH 3 cr
Explore the ways that images, photographs and a variety of visual artifacts shape and reflect culture, society and human experience. Through presentations, discussion, and case studies, we will gain insight into the role visual culture plays in helping to define societal norms, political realities, and personal identity.

ART 290 Directed Studio

AH 1-3 cr
Exploration at the intermediate level through a studio project in a selected medium. Open to majors and non-majors. Utilizes a directed studio format. (Past courses included book arts, jewelry, watercolor, etc.). Course fee.

ART 301 Snobs, Simps, and Trolls

AH WI 3 cr
What does art criticism look like in today's context, with a plurality of platforms and perspectives available at a click? Among all the critical voices, lenses, and personae, what kinds of criticism do we view as legitimate, and what makes art critique relevant? Learn to use the tools of the art critic to create your own content while investigating the many forms and techniques of art criticism today.

Prerequisite: ECL-101

ART 319 Art Theory

AH 3 cr
An exploration of the main theoretical discourses (philosophical, critical, historical) that impel both the creation and the reception of art, including the very definition of art, as deployed throughout the 20th century. Course fee.

Prerequisite: Junior or Senior Standing

ART 326 Photography III

AH 3 cr
An intermediate photography course centered around digital photography. This course will focus on using photography as a method of storytelling. Students will learn ways to apply these techniques to both fine art and commercial work. A digital camera with manual settings is suggested but not required. Course fee.

Prerequisite: ART-126

ART 361 Drawing and Painting I

AH 3 cr
This is an intermediate course, which discusses contemporary as well as traditional ways of creating a drawing and a painting. Time will be devoted to developing ideas of a unique body of work as well as material experimentation. Course fee.

ART 362 Drawing and Painting II

AH 3 cr
This is an intermediate course, which discusses contemporary as well as traditional ways of creating a drawing and a painting. Time will be devoted to developing ideas of a unique body of work as well as material experimentation. Course fee.

Prerequisite: ART-101 or ART-120

ART 385 Art Internship

1-3 cr
Designed to provide on-site working experiences in the student's area of interest. Examples include: apprenticeships with professional artists, internships with museums or art centers, internships with community art councils, or short-term employment in firms specializing in an art-related area. Internships are arranged with assistance of faculty advisor. Possible course fee.

ART 390 Advanced Directed Studio

AH 1-3 cr
In-depth study in the student's area of interest under direction of a faculty member in that area. Designed for junior and senior Art and Design majors who have completed 12 credits of studio work. Exceptions to this policy made only with Departmental permission. Subject matter arranged through close consultation with advisor according to individual needs or to specified curricula available. Course fee.

ART 400 Art History Thesis

AH 1-3 cr
Readings, discussion and research paper on special topics in Art History. Course fee.

ART 426 Photography IV

AH 3 cr
This is an advanced photography course in which students will work toward self-assigned goals with permission and direction from the instructor. They will be able to choose whether they use digital or traditional technology to achieve these goals. Students will develop a body of work suitable for exhibition and will be required to write an artist statement and learn how to mat their prints. A digital camera with manual settings and/or a traditional 35mm SLR film camera is suggested, but not required. Additional supplies may need to be purchased depending on the medium chosen by the student. Course fee.
Prerequisite: Two of the following: ART-126, ART-226, ART-228, or ART-326

ART 461 Advanced Making I

AH 3 cr
An advanced studio course engaged in rigorous visual problem solving. Create a body of work which supports completion of the senior capstone experience. Time in a studio space to engage with informal and formal class critiques. Course fee.
Prerequisite: ART-101 or ART-120 or ART-150; Junior Standing

ART 462 Advanced Making II

AH 3 cr
An advanced studio course engaged in rigorous visual problem solving in which students prepare for senior show and the senior capstone experience. Course fee.
Prerequisite: ART-461; Junior Standing

ART 490 Advanced Directed Studio

AH 1-3 cr
In-depth study in the student's area of interest under direction of a faculty member in that area. Designed for junior and senior Art and Design majors who have completed 12 credits of studio work. Exceptions to this policy made only with Departmental permission. Subject matter arranged through close consultation with advisor according to individual needs or to specified curricula available. Course fee.

ART 500 Senior Show Studio

AH 1-3 cr
Students will work on a specific thesis and body of work as it relates to their capstone senior show thesis within their area of emphasis. Course fee.

ART 501 Professional Practice I

AH 2 cr
This course is a requirement for seniors majoring in art. Art 501 is the first part of the art department's capstone experience. Students will take this course their senior year fall semester. The class will build application materials for success after graduation as well as create an exhibition for their senior thesis. Course fee.
Prerequisite: Senior Standing, Declared Major in Art

ART 502 Professional Practice II

AH 2 cr
This course is a requirement for seniors majoring in art. ART-502 is the second part of the art department's capstone experience. Students will take this course their senior year winter semester. In this course, we will continue building application materials for success after graduation as well as create an exhibition for their senior thesis. Course fee.
Prerequisite: Senior Standing, Declared Major in Art

Astronomy (AST)

AST 101 Planetary Science

NS2 3 cr
Examines the solar system from the perspective of the interdisciplinary fields of planetary science. Study of both solid surfaces and atmospheres using the concepts and techniques of astronomy, geology, atmospheric science, meteoritics, physics and chemistry. Work involves theoretical and experimental studies of planetary processes at an introductory level in lecture, discussions and laboratory. Course fee.

AST 112 The Universe

NS2 3 cr
Introduction to the current view of the physical universe. Topics include the stars, star clusters, the galaxy and cosmology. Required laboratory exercises illustrate principles and ideas used by astronomers to support their views of the cosmos. Course fee.
Prerequisite: MTH-112 or higher

AST 225 Astrophysics

NS2 3 cr
Study of the physics of stellar constituents of the universe: distances, magnitudes, colors, spectra and motions of stars; multiple and variable stars; stellar structure and evolution, star clusters, structure and rotation of the Milky Way galaxy, galaxies and cosmology.
Prerequisite: PHY-221 previously or concurrently

Biochemistry (BCM)

Biochemistry Major Requirements

A minimum of fifty-seven credits which must include the Core (35 credits) and a chosen concentration (22-24 credits):

1. Core: BIO-121; BCM-321, 422 and 430; CHM-115, 223, 224, 230; MTH-121.
2. One of the following areas of concentration:
 - a. General Studies- A minimum of 22 credits of courses (no more than twelve credits from a single discipline), including at least 4 lab courses from the following: BIO-204, 221, 290, 308, 319, 320, 330, 333; BCM courses at the 200-level or above; CHM courses at the 300-level or above; KHS-230, 341, 401; MTH-122, 211; PHY-112 (or 121), 113 (or 122).
 - b. Pre-medicine- BIO-204, 308, KHS-232 (or BIO-207), PHY-112 (or 121), 113 (or 122); and one course from the following: BIO-221, 319, 320, 330, 333; BCM courses at the 200-level or above; CHM courses at the 300-level or above; KHS-341; MTH-116.

Program Considerations:

- Students interested in graduate programs within Biochemistry are strongly advised to take BIO-204, MTH-122, PHY-121, PHY-122, followed by CHM-331 and/or 332. Students unsure on plans for graduate work, should start this math and physics sequence in their second year to retain this possibility.
- Completion of an independent research project culminating in a senior thesis is encouraged, especially for students interested in graduate programs.
- By college policy, a student may only double count up to six credits of one major or minor in a different major or minor. Therefore, students who declare a Biochemistry major may not elect a second major or minor in Chemistry.

BCM 201 Biotechnology Journal Club

1 cr

Gain familiarity with, and be conversant in, current literature and developments in the biotechnology sector. Primary research literature articles of various thematic topics are discussed and presented in a student-directed format.

BCM 319 Toxicology

NS1

3 cr

An introduction to Toxicology. Topics include general principles, toxicodynamics and kinetics, metabolism and biochemical mechanisms, system and organismal responses, testing guidelines, analytical methods, and case studies (clinical and environmental). Laboratory. Course fee.

Prerequisite: BIO-121 and CHM-230

BCM 319L Toxicology Laboratory

1 cr

Laboratory component required for noted course.

BCM 321 Biochemistry

NS1

3 cr

Overview of the major topics of biochemistry, including the chemistry, structure, function, biological activity and molecular mechanisms of the major biological macromolecules. Introduction to bioenergetics and central metabolic pathways. Laboratory. Course fee.

Prerequisite: BIO-121, CHM-223, CHM-224 (CHM-224 may be taken concurrently), and Junior Standing.

BCM 321L Biochemistry Laboratory

1 cr

Laboratory component required for noted course.

BCM 380 Topics in Biochemistry

NS1

3 cr

Investigation of selected topics in biochemistry, such as molecular methods and toxicology, through student participation in lecture, discussion and/or laboratory work. Course fee determined by topic.

BCM 401 Biotechnology Journal Club

1 cr

Gain familiarity with, and be conversant in, current literature and developments in the biotechnology sector. Primary research literature articles of various thematic topics are discussed and presented in a student-directed format.

Prerequisite: BIO-121 and BCM-201

BCM 422 Advanced Biochemistry

NS1

3 cr

Further study of intermediary metabolism through the use of historical and current research articles. Introduction to biophysical methods. Emphasis on experimental design, data analysis and integration of biochemical information. Laboratory. Course fee.

Prerequisite: BCM-321, CHM-230 (CHM-230 may be taken concurrently)

BCM 422L Advanced Biochemistry Laboratory

1 cr

Laboratory component required for noted course.

BCM 430 Molecular Genetics

NS1

3 cr

Study of the transmission of information at the molecular level and the techniques used in gene analysis. Topics include gene structure and function, gene expression, genetic mobility, genomics, transgenics and recombinant DNA methodology. Laboratory. Course fee.

Prerequisite: BIO-204 or BCM-401, Junior or Senior Standing

BCM 430L Molecular Genetics Laboratory

1 cr

Laboratory component required for noted course.

BCM 500 Senior Thesis

NS1

3 cr

Independent laboratory research of an original problem resulting in a thesis and public presentation. Required for Departmental honors.

Course fee.

Biology (BIO)

Biology Major Requirements

A minimum of thirty-five credits which must include the Core (20 credits) and a chosen Concentration (at least 15 credits):

1. Core: BIO-121/121L, 221/221L, 222/222L, 223/223L, 290 and 490.
2. One of the following areas of concentration:
 - A. General Studies (complete at least one class per group; a minimum of three electives must have a laboratory):
 - I. Evolution and Genetics: BIO-204/204L or 360.
 - II. Ecology and Biodiversity: BIO-215, 302/302L, 303/303L, 309/309L, or 361/361L.
 - III. Form and Function: BIO-207/207L, 305, 319/319L, or KHS-232/232L.
 - IV. Cell and Molecular: BIO-308/308L, 330, 333, or BCM-430/430L.
 - B. Pre-Medicine: BIO-204/204L and 308/308L; BIO-207/207L or KHS-232/232L; and one course from the following: BIO-305, 330, 333, BCM-422/422L, or 430/430L.
 - C. Pre-Veterinary Medicine: BIO-207/207L and 308/308L; and two courses from the following: BIO-204/204L, 305, 319/319L, 360, or 361/361L.

Note: Pre-approved spring term courses may be used to fulfill any of the four elective areas. See BIO department chair for substitution approval and paperwork.

Biology Specialization Teaching Major (7-12)

Thirty-six credits, which must include:

1. BIO-121, 204, 207, 221, 222, 290, 302, 308, and 490.
2. One course of upper-level BIO electives not including BIO-223 (most courses have a lab, not all);
3. Successful completion of the requirements of the Science Teaching Major (5-12) and the Secondary Education Major.
4. A grade point average of at least 2.5 in Biology Specialization Teaching Major (7-12) courses.

Program Considerations

- Potential Biology majors should note that many career opportunities for biologists, including graduate and professional programs, require two terms each of Inorganic and Organic Chemistry, Physics, and Mathematics
- Therefore, Biology majors are encouraged to complete CHM-115, 223, 224 and 230; PHY-112 and 113 or 121 and 122; and MTH-112 and 113, 116, or 121 and 122. Additional courses may be required for specific graduate/professional schools; majors should check prospective program websites for specific admission requirements.
- Students are also encouraged to complete a primary research experience through independent study or a summer internship. Students considering graduate school and/or a career in research should discuss the multiple recommended experiences with their academic advisor.

Biology Minor Requirements

Twenty-one credits, which must include:

1. BIO-121, 222, 223;
2. Nine additional credits of upper-level BIO electives.

Biology Specialization Teaching Minor (7-12)

Twenty-eight credits, which must include:

1. BIO-121, 204, 207, 221, 222, 223, and 302.
2. Successful completion of the requirements of the Science Teaching Major (5-12) and the Secondary Education Major
3. A grade point average of at least 2.5 in Biology Specialization Teaching Minor (7-12) courses.

BIO 121 Foundations of Biology

NS1 EXP3

3 cr

Foundational concepts of biology are introduced through a combination of activities, case studies, presentations and discussions, and hands-on laboratory experiences. Students explore the essentials of metabolism, basic cell membrane and organelle structure and function, biosynthesis, DNA replication, cell division, reproduction, and Mendelian genetics within broader biological contexts such as human ecology and health, environmental issues, and evolution. The laboratory component provides students with practical experiences that develop laboratory skills and that employ the scientific method and basic data analyses. Laboratory. Course fee.

BIO 121L Foundations of Biology Laboratory

1 cr

Laboratory component required for noted course.

BIO 125 Molecular Techniques

NS1

3 cr

The course is an introduction to basic molecular biology laboratory techniques and applications. Prepares students for upper-level courses and summer research internships and independent studies in the molecular sciences. Course fee.

Prerequisite: First-year or Sophomore Standing

BIO 180 Topics in Biology

NS1

3 cr

Lecture, laboratory and/or field experiences of special relevance to biology. Recent topics have included animal behavior, recombinant gene techniques, microbial ecology and cell culture. May be taken more than once for credit. May include a course fee.

BIO 204 Genetics

NS1 QR

3 cr

The mechanics of inheritance at the molecular and cellular levels and the relationship of this phenomenon to gene action, organismal development, population changes and evolution. Laboratory. Course fee.

Prerequisite: BIO-121 and Sophomore Standing

BIO 204L Genetics Laboratory

1 cr

Laboratory component required for noted course.

BIO 205 Human Embryology

NS1

3 cr

Development of the organism from its beginning to the establishment of the basic body plan and organ systems. Live embryos and developmental morphology of vertebrates. Laboratory. Course fee.

Prerequisite: BIO-121

BIO 205L Human Embryology Laboratory

1 cr

Laboratory component required for noted course.

BIO 207 Animal Physiology

NS1 QR

3 cr

Study dynamic organ system functions of animals with emphasis on homeostasis, variable activity levels, and challenging environmental conditions. Neurological and endocrinological control systems related to all major organ systems are studied. Analysis and interpretation of data collected during hands-on experimentation with various animal species, including humans, are emphasized in class and in the laboratory. The course is especially relevant for students in biology, environmental studies, and in the pre-health professions.

BIO 207L Animal Physiology Laboratory

1 cr

Laboratory component required for noted course.

BIO 210 Medical Apartheid

NS1 GCA THM4 THM5

3 cr

Examination of the history of medical experimentation and therapies conducted on marginalized, disadvantaged and/or discriminated populations without informed consent. Topics will primarily focus on cases from colonial times to the present day in the United States.

BIO 215 Human Biodiversity

NS1

3 cr

Human variation and diversity are examined from genetic and epigenetic perspectives. Topics will likely include discussions on human migration, genetic measures of diversity, race, eugenics, genocide, among others. Course fee.

Prerequisite: Sophomore Standing.

BIO 221 Cell Biology

NS1

3 cr

The course focuses on the molecular structure of cells and how those structures permit and constrain cell functions. BIO-221 answers questions regarding how cells function from protein, lipid, and organellar trafficking, chromatin organization, and cytoskeletal function, to cell division mechanics. Course includes clinical correlates involving many common disease conditions including cancer, cystic fibrosis, lysosomal storage diseases, Creutzfeldt-Jakob Disease, and muscular dystrophy. Laboratory includes in vitro cell culturing experience and basic molecular techniques. Laboratory. Course fee.

Prerequisite: BIO-121

BIO 221L Cell Biology Laboratory

1 cr

Laboratory component required for noted course.

BIO 222 Plant Biology

NS1

3 cr

An introductory course emphasizing plants as the model organism for learning about basic biological principles including plant development, anatomy, physiology, behavior, evolution, and ecology. Studio format course, in which lectures and labs are combined for a student-focused, active-learning experience. Students work throughout the semester as members of collaborative groups to answer and develop questions, solve problems, perform experiments, and conduct research that is intended to help them learn. Laboratory. Course fee.

Prerequisite: BIO-121

BIO 222L Plant Biology Laboratory

1 cr

Laboratory component required for noted course.

BIO 223 Animal Biology

NS1

3 cr

This course examines the diversity of the animal kingdom. Animals will be studied in an evolutionary context, emphasizing morphology, life history, ecology and behavior. The laboratory will include dissections and demonstrations that allow students to appreciate the physical differences across the major phyla. Laboratory. Course fee.

Prerequisite: BIO-121

BIO 223L Animal Biology Laboratory

1 cr

Laboratory component required for noted course.

BIO 280 Topics in Biology

NS1

3 cr

Biological topics selected by the instructor. May be taken more than once for credit.

BIO 290 Experimental Design & Analysis

NS1

1 cr

Biology as a quantitative, experimental, and theoretical science is a central focus of the course. Foundational skills essential for conducting research in biology and for critical evaluation of research are

established. Students learn the underlying principles and practical skills necessary for the exploration of questions and for testing hypotheses with special emphasis on research design and analysis and interpretation of data using statistical techniques. Sound experimental and statistical principles are demonstrated through the use of data from several diverse fields of biology. The course provides an essential foundation for undergraduate research in biology. Course fee.

Prerequisite: BIO-121 and Sophomore Standing.

BIO 302 Ecology

NS1 3 cr
Investigation of population, community and ecosystem structure, dynamics and energetics. Laboratory and field studies. Course fee.
Prerequisite: Sophomore Standing.

BIO 302L Ecology Laboratory

1 cr
Laboratory component required for noted course.

BIO 303 Conservation Biology

NS1 THM6 3 cr
This course will consider major environmental questions of today's world relating to the conservation of resources. We will study conservation biology theory and principles with an emphasis on how they can be applied in natural ecosystems. Course fee.
Prerequisite: BIO-121

BIO 303L Conservation Biology Laboratory

1 cr
Laboratory component required for noted course.

BIO 305 Comparative Vertebrate Anatomy

NS1 3 cr
Explores the use of homology and cladistics to recover phylogenies and to understand the evolution of anatomical features of vertebrates. The function, form, and biodiversity of chordates with emphasis on vertebrates are discussed. Laboratory. Course fee.
Prerequisite: BIO-223.

BIO 305L Comparative Vertebrate Laboratory

1 cr
Laboratory component required for noted course.

BIO 308 Microbiology

NS1 3 cr
Survey of the bacteria, viruses and other protists emphasizing their structure, physiology, systematics, ecology and genetics. Focuses on microbes important to humans including disease and the immune response. Laboratory. Course fee.
Prerequisite: Junior or Senior Standing

BIO 308L Microbiology Laboratory

1 cr
Laboratory component required for noted course.

BIO 309 Aquatic Biology

NS1 3 cr
The physical, chemical and biological factors that affect fresh water organisms. Comparison of streams, rivers and lake habitats of Michigan. Laboratory. Course fee.
Prerequisite: BIO-121 or instructor permission

BIO 309L Aquatic Biology Laboratory

1 cr
Laboratory component required for noted course.

BIO 319 Toxicology

NS1 QR WI 3 cr
The study of toxic effects of chemicals on human and ecological populations. This includes the basic principles of toxicology and toxicity testing, fate and transport of materials in the environment and the body, key toxins and toxicants, and modes of toxic action among other

topics. These subjects are supplemented with scientific literature on current topics in toxicology. Laboratory. Course fee.

Prerequisite: BIO-121 and CHM-115 (one course from CHM-223, or BIO-223 recommended)

BIO 319L Toxicology Laboratory

1 cr
Laboratory component required for noted course.

BIO 320 Medical Botany

NS1 3 cr
Study of the contribution of plants to modern medicine. Topics include the botany, anthropology, chemistry, and pharmacology of plant derived drugs. Cross-listed with BTC-320. Laboratory. Course fee.
Prerequisite: BIO-121 and CHM-223

BIO 320L Medical Botany Laboratory

1 cr
Laboratory component required for noted course.

BIO 325 Advanced Molecular Techniques

NS1 3 cr
Hands-on lab course which introduces/reinforces student experience with common molecular techniques. This work includes looking at experiment planning and execution, data collection and presentation. Unlike the standard once-a-week-for-three-hours labs, in this course we have time for understanding planning, and for "re-dos". Real-time PCR, nucleic acid isolation and preparation, spectrophotometry, affinity chromatography, reagent preparation, lab notebook basics, etc. Lab. Course fee.
Prerequisite: BIO-121

BIO 330 Immunology

NS1 3 cr
The basic elements of the immune system that govern the innate and adaptive immune responses will be covered. Emphasis will be spent on B and T lymphocyte functions and the mechanisms of immune defense against pathogens. Course fee.
Prerequisite: BIO-121 or KHS-131

BIO 333 Cancer Biology

NS1 3 cr
Cancer biology is an interdisciplinary field spanning several disciplines that include genetics, cell biology, immunology, and microbiology. Basic principles of tumor biology are explored initially from a historical view of diagnosis and treatment paradigms and then through discussions of chemo- and immune-therapies, an introduction to oncogenes, tumor suppressor and DNA repair genes that are disrupted during carcinogenesis, and an in-depth look into several common types of malignancies.
Prerequisite: BIO-121 or KHS-131

BIO 360 Evolution

NS1 3 cr
Study of evolution as it applies to aspects of the biological sciences. Topics include history, mechanisms of evolution and population genetics. Course fee.
Prerequisite: BIO-121

BIO 360L Evolution Laboratory

1 cr
Laboratory component required for noted course.

BIO 361 Animal Behavior

NS1 3 cr
Animal behavior is examined from an ecological and evolutionary perspective. Topics include reproduction, habitat selection, foraging and fighting behaviors. Laboratory. Course fee.
Prerequisite: BIO-222 or BIO-223

BIO 361L Animal Behavior Laboratory

1 cr
Laboratory component required for noted course.

BIO 380 Topics in Biology

NS1 3 cr
Lecture, laboratory and/or field experiences of special relevance to biology. Recent topics have included animal behavior, recombinant gene techniques, microbial ecology and cell culture. May be taken more than once for credit. Course fee.
Prerequisite: BIO-121

BIO 385 Biology Practicum

1-3 cr
Biological knowledge is applied to an outside working situation. Pass/Fail Only.
Prerequisite: BIO-121 and department permission

BIO 387 Clinical Histopathology

NS1 3 cr
Normal cytologic structure of major tissue types in various species will be studied. Abnormal changes will be identified and studied, and pathophysiologic causes of these abnormalities discussed. Cytologic changes will be related to gross anatomical appearance and abnormalities that would be evident on diagnostic imaging modalities. Students will gain understanding of the symptoms created in the patient by the diseased tissue and which diseases/disorders must therefore be considered. Lab will develop skills utilized in histological preparation and examination of normal and diseased tissue. Course fee.
Prerequisite: BIO-121

BIO 490 Senior Capstone Seminar

NS1 1 cr
A retrospective of each student's experiences as a biology major that encourages students to make the connections among the various areas of biology, to reflect upon opportunities and personal pathways through the biology major, and to link their past experiences to future endeavors. Students complete reading and writing assignments and are required to complete the Mean Field Aptitude test. Course fee.
Prerequisite: Senior Standing

BIO 500 Senior Thesis

NS1 3 cr
Independent laboratory research of an original problem culminating in a thesis. Course fee.
Prerequisite: Senior Standing or department permission

Biotechnology (BTC)

Biotechnology Minor Requirements

Twenty-one credits, which must include:

1. Core (12 credits): BIO-121; BCM-201, 401, and 430;
2. Electives (9 credits): Choose from BIO-125, 204, 207, 308, 320; BCM-321, 422; CHM-224; KHS-232.

Program Considerations:

- Note that some elective courses have additional prerequisites
- Students with AP Biology test scores of 5 receive four credits of BIO-121, thus fulfilling this requirement.

BTC 320 Medical Botany

NS1 3 cr
Study of the contribution of plants to modern medicine. Topics include the botany, anthropology, chemistry, and pharmacology of plant derived drugs. Course fee. (Cross-listed as BIO-320.)
Prerequisite: BIO-121 and CHM-223

BTC 430 Molecular Genetics

NS1 3 cr
Study of the transmission of information at the molecular level and the techniques used in gene analysis. Topics include gene structure and function, gene expression, genetic mobility, genomics, transgenics and recombinant DNA methodology. Laboratory. Course fee.
Prerequisite: BIO-204 or BCM-401, Junior or Senior Standing

BTC 430L Molecular Genetics Laboratory

1 cr
Laboratory component required for noted course.

BTC 500 Senior Thesis

3 cr
Independent laboratory research of an original problem resulting in a thesis and public presentation. Required for Departmental honors.
Prerequisite: Senior Standing or department permission

Business Administration (BUS)

Business majors will complete a 39 credit business core along with selecting one required 9 credit concentration. Concentrations include: Analytics, Environmental Responsibility, Leadership and Management, Operations & Supply Chain Management or Sports Management.

Sixty-four credits total, including the business core and chosen concentration.

Business Core Courses (39 credits):

1. ACC-221, 222;
2. BUS-117, 121, 225, 309, 317, 323, 333, 440;
3. ECN-111 or 112;
4. Ethics: three credits from PHL-126, 127, 225, 227, 228; or other course pre-approved by the BUS department;
5. BUS-385 Business Practicum.

Analytics Concentration (9 credits);

only 6 credits are permitted from the same discipline:

- BUS-417 Business Analytics III
- DAT-115 Introduction to Data Analytics
- DAT-116 Programming with Data
- DAT-315 Machine Learning
- ECN-217 Quantitative Methods
- ECN-317 Econometrics
- KHS-330 Health Data Analysis
- MTH-116 or POL-210 or PSY-220

Environmental Responsibility Concentration (9 credits);

only 6 credits are permitted from the same discipline:

- ECL-252 Environmental Communication
- ECL-253 Environmental Literature
- ECN-340 Environmental Economics
- ECN-350 Environmental Policy Analysis
- ENV-105 Our Environment
- ENV-291 Scientific Writing and Methods
- ENV-370 Risk Assessment
- ENV-205 Environmental Health
- NMS-253 Environmental Media
- PHL-225 Environmental Ethics

Leadership & Management Concentration (9 credits);

only 6 credits are permitted from the same discipline:

- BUS-223 Business Leadership and Society
- BUS-341 Applications and Cases in Management
- BUS-346 Wealth Management
- BUS-470 Operations Management
- ECL-113 Group and Team Communication
- ECL-203 Professional and Technical Writing
- ECL-271 Introduction to Public Relations
- ECL-371 Risk and Crisis Communication
- ECN-314 Behavioral Economics
- NMS-310 Social Media
- PSY-276 Industrial Organization

Operations & Supply Chain Management Concentration (9 credits):

- BUS-470 Operations Management
- DES-321 Project Management
- MTH-116 Statistics

Sports Management Concentration (9 credits);

only 6 credits are permitted from the same discipline:

- BUS-230 Sports Management
- ECL-221 Sports Communication
- ECN-330 Sports Economics
- KHS-224 Principles of Sports Medicine
- NMS-310 Social Media
- PHL-242 Philosophy of Sport
- PSY-242 Sport Psychology

Business Secondary Teaching Major Requirements

Business Core Courses (36 credits):

1. ACC-221, 222, BUS-117, 121, 225, 309, 317, 323, 333, 440;
2. ECN-111 or 112;
3. Ethics: three credits from PHL-225, 227, 228, 229 or other course pre-approved by the department.

Business Administration Minor Requirements

Eighteen credits, which must include:

1. ACC-221;
2. BUS-117, and 121 or 333;
3. Nine additional credits of BUS courses at the 200-level or above.

Marketing Major Requirements

Forty-eight credits, which must include:

1. ACC-221;
2. BUS-117, 121, 161, 225, 309, 317, 323, 333, 440, 453;
3. ECN-111 or 112;
4. Ethics: three credits from PHL-126, 127, 225, 227, 228 or other course pre-approved by the department.
5. BUS-385 Business Practicum;
6. Electives (6 credits) selected from:
 - BUS-370 Professional Selling
 - DES-101 Design Fundamentals
 - DES-231 Branding, Authenticity & Disruption
 - DES-245 UI/UX Design
 - DES-321 Project Management

Departmental Honors in Business

Students may achieve honors in Business by earning a minimum 3.5 GPA in a business department major and preparing a senior thesis project of honors caliber. This is to include both a paper and oral presentation to be presented at Honors Day.

BUS 117 Business Analytics I

3 cr

Microsoft Excel is the most widely used software in business. Bankers, accountants, analysts, marketing professionals, scientists, entrepreneurs, and most professionals use Excel. This course will cover advanced skills in the use of Excel spreadsheets, workbooks, tools, techniques, and functions.

BUS 121 Foundations of Business

3 cr

Provides a multidisciplinary examination of the core themes of organizations, including planning, organizing, staffing, leading, controlling, marketing practices, decision-making and problem solving, change management, financial acumen, professionalism and communication. These aspects of organizations will be explored through the lens of Diversity, Equity, and Inclusion to achieve organizational goals.

BUS 161 Introduction to Digital Marketing

3 cr

Focuses on online advertising, search engine optimization, interactive marketing, e-commerce, social influence, mobile marketing, social media monitoring, brand positioning, crowdfunding, two-sided online platforms, and integrating social media with traditional media.

BUS 223 Business Leadership and Society

3 cr

Social, ethical and legal responsibilities that leaders have to society at large in profit and non-profit enterprises. Special focus on helping students become future leaders who think critically about the outcome of decisions they make and how these decisions impact society as a whole. Uses a case-analysis approach to study decisions made by business leaders that have had positive and negative impacts on companies in our society. Designed as an experiential learning class. Includes simulations, case applications and projects.

Prerequisite: BUS-121

BUS 225 Legal Environment of Business

3 cr

Introduces legal concepts and critical thinking that are applied in a business context. Includes the study of complex business problems with a legal and ethical focus. Students will build knowledge of the law and legal concepts to help navigate the everyday business world. Topics may include: the court system, litigation process, negligence and strict liability, employment law and discrimination, contracts, real and personal property law, torts, product liability, consumer law and criminal law impacting business.

BUS 230 Sports Management

WI THM1 THM2

3 cr

An overview of the sports industry and the history of sports as a cultural phenomenon. Introduces the student to the basic fundamental knowledge and skill sets required of the sport manager to solve sport business problems. Additional topics may include: historical, ethical, social, and economic aspects of the sports industry; the terminology of sports; and the forces that have affected the growth of sports as a business.

Prerequisite: BUS-117 and BUS-121

BUS 234 Business & Marketing for the Arts

3 cr

Develop skills in business and marketing related to self and collaborative promotion in the arts. Learn effective social media marketing. Explore distribution platforms for music and the arts. Create a toolkit portfolio of strategies to achieve financial and market success as an artist.

BUS 309 Managerial Finance

3 cr

An introductory course in finance designed for general business students with an emphasis on core financial principles. Students will acquire a working knowledge of how capital markets function, learn to analyze financial statements, assess the time value of money and the valuation of debt and stock, and make capital budgeting decisions.

Prerequisite: ACC-221, BUS-117, and BUS-121

BUS 317 Business Analytics II

QR

3 cr

A data analytics course using multiple tools to emphasize critical thinking and data analysis skills, including descriptive, diagnostic, predictive and prescriptive analyses. Students will take real business data and determine what questions to ask and what decisions to make to solve business problems. Students will: learn how to ask the right questions; extract, transform and load relevant data; apply appropriate data analytic techniques; interpret and share the results with stakeholders using basic data visualizations.

Prerequisite: BUS-117 and BUS-121

BUS 323 Management

3 cr

Exploration of the four primary functions of management: planning, organizing, leading and controlling. Emphasis on understanding functions and roles that managers play within organizational structures and society stakeholders. Students will engage in numerous contemporary experiential learning and project applications. Developing managerial problem-solving, business professionalism, teamwork, and communication skills are a cornerstone of this course.
Prerequisite: BUS-117, BUS-121

BUS 324 Human Resource Management

3 cr

Emphasis on employment issues of organizations such as: recruiting, selecting, training, compensating and managing human resources. Other critical topics such as appraisal, discipline, safety, benefits and collective bargaining are discussed. Insight is also provided into the legal issues involved with human resource management and the framework for equal opportunity employment.
Prerequisite: BUS-323

BUS 333 Marketing

3 cr

General survey course acquainting students with the business and economic principles underlying the transfer of goods and services from producer to consumers. Investigation of the institutions, systems of distribution, and the functions and policies of the marketing discipline.
Prerequisite: BUS-117 and BUS-121

BUS 341 Applications and Cases in Management

3 cr

Apply management concepts to real life cases and situations. Examine complex management problems in the business world. Learn critical thinking, problem solving and conceptual thinking through the use of role play, simulations, projects, and case applications. This is a synergistic class and content from core classes will be utilized in this experiential learning environment.
Prerequisite: BUS-121, ACC-221, ACC-222, BUS-309, BUS-323, BUS-333

BUS 346 Wealth Management

3 cr

This course will provide an introduction to wealth management and financial planning as a career, and to their importance and benefits to society. Topics addressed include client interactions, data collection and analysis, budgeting strategies, risk assessment, investment planning, portfolio management, including retirement and estate planning for clients, and careers in wealth management.
Prerequisite: BUS-117, BUS-121, BUS-225, BUS-309

BUS 370 Professional Selling

TH3 THM4

3 cr

This course examines the principles and practices of professional selling as an integrated component of a marketing and management strategy for goods and services. Ethical, technical, and global issues and challenges will be analyzed. This course will also seek to provide students with the opportunity to understand and develop selling skills and concepts through the use of sales exercises, role-plays, and presentations. Presentation and public speaking skills will be emphasized due to their importance for mastery of the subject and success on the job.
Prerequisite: BUS-121

BUS 385 Business Practicum

3 cr

A practicum is a supervised college course that allows students to apply classroom theories to the real-world, hands-on professional settings. Only three credits will count in the major. Students must also successfully complete the professional skills workshop series offered by the BUS department and the Center for Student Opportunity (CSO). Pass/Fail Only.
Prerequisite: Junior Standing, ACC-221, ACC-222, BUS-117, and BUS-121; Departmental permission

BUS 410 Investments

3 cr

Principles of investments, types of investments including common and preferred stocks, bonds, options, mutual funds and derivatives, analysis of risk and return, portfolio structure, operation of markets, analysis of investment requirements, and market timing strategies.
Prerequisite: BUS-309

BUS 415 Advanced Finance

3 cr

An advanced finance course designed to cover more complicated topics in corporate finance. In this course, students will increase understanding of cash flow estimation and risk analysis, capital structure and leverage, dividends and share repurchase, and working capital management.
Prerequisite: BUS-309

BUS 417 Business Analytics III

3 cr

Advanced themes in business analytics that may include database management, multivariate regression, Monte Carlo simulations, and data visualization.
Prerequisite: BUS-317

BUS 440 Global Strategic Management

3 cr

Coverage of all aspects of strategy with a focus on industry and corporate analysis, especially in the global environment. Emphasis on individual written and group oral presentations of case analyses. Students apply the concepts learned to actual business situations. The capstone course for Business Administration and International Business Administration majors.
Prerequisite: ACC-222; BUS-225; BUS-309; BUS-317; BUS-323; BUS-333.

BUS 453 Marketing Management

3 cr

This course uses case studies, simulations, and team projects to help students understand the strategic marketing management decisions involved in selecting products and services, target markets, and the marketing mix. It will also explore advertising, branding, and positioning.
Prerequisite: BUS-333

BUS 470 Operations Management

3 cr

This course focuses on the management of manufacturing and service operations. Topics include operations planning and strategy selection, improving productivity and quality, designing and managing operations, lean systems, and supply-chain management. This course seeks to provide students with an overview of the methods used by manufacturing and service operations to increase productivity, quality, and customer service.
Prerequisite: Junior or Senior Standing

BUS 500 Senior Thesis

3 cr

Student must have a GPA of 3.5 or better calculated on all BUS courses taken.
Prerequisite: Senior Standing and department permission

Chemistry (CHM)

Chemistry Major Requirements

Forty-nine to fifty-five credits, depending on concentration, to include:

1. Core Courses (29 credits): CHM-115, 223, 224, 230, 320, 331, 332, and 450;
2. Required Cognate Courses (14 credits):
 - a. MTH-121 and 122;
 - b. PHY-112 and 113; or PHY-121 and PHY-122.
3. Completion of one area of concentration (6-12 credits):
 - a. **Chemistry (6 cr)**: a minimum of six credits from CHM-251, 300 or 400 level courses, BCM-321 or 422. At least one course must be at or above the 300 level.
 - b. **American Chemical Society Certified Degree (12 cr)**: CHM-313 and 314; BCM-321; and one course chosen from CHM-399, 411, 499, or BCM-422.
 - c. **Pre-Medicine (7 cr)**: BCM-321; and a minimum of three credits from 300 or 400 level courses in Chemistry (see Program Considerations)

Program Considerations

- The American Chemical Society Certified Degree is also available with the pre-medicine concentration.
- Potential majors are advised to schedule MTH-121 and 122 and PHY-121 and 122 (or PHY-112 and 113) in the first and second years so they may enroll in CHM-331 and 332 in the junior year.
- Completion of an independent research project normally culminating in a senior thesis is recommended. Students bound for graduate school should make careful course selections to support their area of emphasis; participation in research, completion of CHM-313, 314 and 411, MTH-210 and 211 should be considered.
- Experience with calculus-based physics (PHY-121 and 122) is preferred over PHY-112 and 113.
- The Chemistry department strongly recommends, to be a competitive medical school applicant, students completing a Chemistry major also take genetics and physiology, in addition to considering upper-level electives from Biology, Biochemistry or Integrated Physiology and Health Science.
- In addition, students who plan to take the MCAT at the end of the junior year are encouraged to take CHM-115 in the fall of their first year so that BCM-321 can be completed in advance of taking the MCAT (CHM-115, 223, 224, 230 and BIO-121 are *prerequisite* to BCM-321).

Departmental Honors in Chemistry

Students may achieve honors in Chemistry by:

1. Earning a 3.5 GPA in all chemistry classes.
2. Performing at a superior level in Departmental Senior Seminar.
3. Preparing and presenting a senior thesis of honors caliber. See Chemistry Department Chair for details on how to fulfill the thesis requirements.

Chemistry Minor Requirements

Twenty-four credits, which must include:

1. CHM-115, 223, 224, and 230;
2. Eight credits from any of the following:
 - CHM courses numbered 300 or above; or
 - BCM-321.

Chemistry Specialization Teaching Major (7-12)

Forty-nine credits, which must include:

1. Core Courses (31 cr): CHM-115, 223, 224, 230, 320, 331, 332, and 450.
2. A minimum of six credits from CHM-251, 300 or 400 level courses, BCM-321 or 422. At least three credits must be at or above the 300-level.
3. Required Cognate Courses (14 credits)
 - a. MTH-121 and 122;

- b. PHY-121 and 122; or 112 and 113.
4. Successful completion of the requirements of the Science Teaching Major (5-12) and the Secondary Education Major.
 5. A grade point average of at least 2.5 in Chemistry Specialization Teaching Major (7-12) courses.

Chemistry Specialization Teaching Minor (7-12)

Thirty-nine credits, which must include:

1. CHM-115, 223, 224, 230, 320, and 331;
2. MTH-121 and 122;
3. Either PHY-112 & 113 or 121 & 122.
4. Successful completion of the requirements of the Science Teaching Major (5-12) and the Secondary Education Major.
5. A grade point average of at least 2.5 in Chemistry Specialization Teaching Minor (7-12) courses.

American Chemical Society Certified Degree

Completion of CHM-115, 223, 224, 230, 313, 314, 320, 331, 332, 450; BCM-321 and four credits selected from CHM-399, 411, 499, or BCM-422. Completion of 400 hours of laboratory work beyond CHM-115 is required. If independent study is used to satisfy the ACS-certified degree requirements, a written research report is required. Students must consult with the Chemistry Chair prior to their junior year for approval of their program.

CHM 115 Chemical Analysis

NS2 EXP3

3 cr

Introduction to the basic principles of chemistry in a context of chemical analysis. Intended for students in the sciences. Includes the periodic table, elements, ionic and covalent compounds, stoichiometry, atomic and molecular structure, spectroscopy, gases, pH and acid-base and oxidation-reduction reactions. DR and academic credit will only be awarded to one of CHM-103 or CHM-115. Course fee.

CHM 115L Chemical Analysis Laboratory

1 cr

Laboratory component required for noted course.

CHM 203 Science & Art of Flavors and Fragrances

THM5 THM7

3 cr

The flavor and fragrance industry is a captivating blend of science and art. This course will cover entry-level and industry-specific topics in biology, chemistry, physiology, and more. The history of flavors and fragrances, the origins and analysis of natural and raw materials, modern synthetic ingredients, and marketing complete this highly interdisciplinary course. There is no separately assigned lab; however, students will participate in laboratory exercises.

CHM 223 Organic Chemistry I

NS2

3 cr

Study of the chemistry of carbon-containing compounds, emphasizing the various functional groups and their transformations, reaction mechanisms and stereochemistry, and the development of synthetic schemes. Laboratory. Course fee.

Prerequisite: CHM-115

CHM 223L Organic Chemistry I Laboratory

1 cr

Laboratory component required for noted course.

CHM 224 Organic Chemistry II

NS2

3 cr

Study of the chemistry of carbon-containing compounds, emphasizing the various functional groups and their transformations, reaction mechanisms and stereochemistry, and the development of synthetic schemes. Laboratory. Course fee.

Prerequisite: CHM-115, CHM-223

CHM 224L Organic Chemistry II Laboratory

1 cr

Laboratory component required for noted course.

CHM 230 Inorganic Chemistry

NS2 QR 3 cr
Study of the chemistry of the metals and non-metals emphasizing periodic behavior, elementary thermodynamics, ionic and covalent structures, oxidation and reduction reactions, acid-base chemistry, equilibria, transition metal complexes and reaction kinetics. Laboratory. Course fee.
Prerequisite: CHM-224

CHM 230L Inorganic Chemistry Laboratory

1 cr
Laboratory component required for noted course.

CHM 251 Chemistry of Ordinary Things

NS2 3 cr
An exploration of the applications of principles of general and organic chemistry of everyday phenomena. Additional topics include an introduction to drug design and aspects of spectroscopy to probe molecular structure. Laboratory. Course fee.
Prerequisite: CHM-223

CHM 251L Chemistry of Ordinary Things Laboratory

1 cr
Laboratory component required for noted course.

CHM 280 Topics in Chemistry

3 cr
Chemical topics chosen by the instructor. May be taken more than once for credit. Course fee may apply.
Prerequisite: CHM-230

CHM 310 Medicinal Chemistry

NS2 2 cr
Study of the molecular aspects of drug function leading to an understanding of the basis for rational drug design. Discussion of physical-chemical properties and their effect on biological activity, structure-activity relationships, drug metabolism and receptor theory.
Prerequisite: CHM-230

CHM 311 Environmental Chemistry

NS2 2 cr
Introduction to environmental chemistry, emphasizing the origins, transport, reactions, effects and fates of chemical species in the water, air, soil and living environments.
Prerequisite: CHM-230

CHM 312 Fragrance and Flavor Chemistry

NS2 2 cr
A study of the physiological basis for smell and taste, history of fragrances and flavors, origins and analysis of natural materials and raw materials for and production of synthetic ingredients. The fragrance and flavor industry, marketing and product application will also be discussed. There is no separately assigned lab, however students will be engaged in laboratory exercises. Course fee.
Prerequisite: CHM-230

CHM 313 Inorganic Structures

NS2 2 cr
A survey of inorganic species including symmetry, bonding models and spectroscopy. An overview of the reactions of organometallic compounds will be included.
Prerequisite: CHM-230

CHM 314 Bioinorganic Chemistry

NS2 2 cr
The study of the use of metals by biological species emphasizing inorganic models, reaction types and reaction mechanisms.
Prerequisite: CHM-230

CHM 320 Instrumental Analysis

NS2 3 cr
Principles and laboratory methods of chemical analysis using instrumentation: chromatography, spectroscopy, Fourier transform infrared and nuclear magnetic resonance spectroscopy, atomic absorbance and ion selective electrodes. Laboratory. Course fee.

Prerequisite: CHM-230

CHM 320L Instrumental Analysis Laboratory

1 cr
Laboratory component required for noted course.

CHM 331 Chemical Thermodynamics

NS2 WI 3 cr
The laws of thermodynamics are applied to chemical mixtures and reactions, and the principles of statistical mechanics are used to derive these laws from the behavior of single molecules. Laboratory. Course fee.
Prerequisite: CHM-230, MTH-122 and PHY-113 or PHY-122

CHM 331L Chemical Thermodynamics Laboratory

1 cr
Laboratory component required for noted course.

CHM 332 Quantum Chemistry

NS2 3 cr
The principles of quantum mechanics are used to describe the structure of atoms and molecules and their spectroscopic properties. The kinetics of chemical reactions are studied and rate laws are derived. Laboratory. Course fee.
Prerequisite: CHM-230, MTH-122 and PHY-113 or PHY-122

CHM 332L Quantum Chemistry Laboratory

1 cr
Laboratory component required for noted course.

CHM 380 Topics in Chemistry

NS2 1-3 cr
Chemical topics chosen by the instructor. May be taken more than once for credit.
Prerequisite: CHM-230

CHM 411 Advanced Organic Chemistry

NS2 3 cr
An advanced study of spectroscopic and synthetic methods with an emphasis on biologically relevant molecules. This course has an intensive laboratory component that helps prepare students for post-graduate studies or direct employment in the scientific community. Advanced techniques include multi-dimensional NMR, rotary evaporation, chromatography, solid phase synthesis, reactions requiring inert atmospheres and multi-step synthesis. Special emphasis will be placed on developing laboratory procedures from the primary literature. Laboratory. Course fee.
Prerequisite: CHM-230

CHM 411L Advanced Organic Chemistry Laboratory

1 cr
Laboratory component required for noted course.

CHM 450 Senior Seminar

NS2 1 cr
Analysis of the literature in a variety of chemical subfields. Culminates in an oral exam evaluating the ability to read and interpret the literature.
Prerequisite: Senior Standing; BCM or CHM Major

CHM 480 Topics in Chemistry

NS2 1-3 cr
Chemical topics chosen by the instructor. May be taken more than once for credit.

CHM 500 Senior Thesis

NS2 2 cr
Preparation of a comprehensive thesis and a public presentation on an investigation of an original problem. Required for Departmental honors.
Prerequisite: Three credits in CHM-399 or 499 or taken concurrently

Computer Science (CSC)

Computer Science Major Requirements

Thirty-six credits, which must include:

1. One course from CSC-116, 118, or 119;
2. CSC-115 and MTH-120;
3. CSC-121, 122, 230, 240, and 310;
4. Six credits from CSC-410, 420, 430, 440, or 450;
5. Six credits from CSC courses numbered above 310, MTH-116, 121, 223, 242, 336, or 341. Other courses may fulfill this requirement with the permission of the CSC department.

Computer Science Minor Requirements

Eighteen credits, which must include:

1. Complete one course from: CSC-116, 118, 119;
2. CSC-121 and MTH-120;
3. Complete a minimum of 9 credits in CSC numbered 200 or above, excluding courses numbered 450 and above.

Note: some advanced CSC courses have CSC prerequisite(s) that could result in a minor larger than 23 credits to complete.

Program Considerations

Students bound for graduate schools are encouraged to take CSC-420, 430, and 440, and to minor in mathematics. A senior thesis is encouraged as many graduate schools expect undergraduate research as part of an entering student's educational background. Consult carefully with your advisor. Students seeking a technical professional position upon graduation are strongly encouraged to take CSC-410, 420, 430, 440 and MTH-116 and 117; a practicum is recommended.

Department Honors for Computer Science

Completion of all major requirements with a 3.5 GPA or above; AB or above in the capstone; and presentation of the capstone project at Honors Day

CSC 100 Computer Systems

2 cr

Introduction to the use of modern computer systems. Basics of word-processing, graphics, spreadsheets, Internet access and Web development software. Use of computer peripherals such as printers, scanners and digital cameras. Taught in a laboratory setting.

CSC 105 Modern Spreadsheets

2 cr

Introduction to the use of modern spreadsheets, with a particular emphasis on business applications. Taught in a laboratory setting.
Prerequisite: MTH-100 or Placement

CSC 115 Algorithms and Justice

EXP4

3 cr

Social media algorithms decide what we see and what we do not see. Machine learning algorithms try to predict what we want-or what we deserve. What do we mean by "algorithms"? How do they affect our daily lives? How do algorithms reproduce, or resist, biases that exist in our society? How do humans communicate these algorithms to the computers that enact them? This course explores all these questions. No previous programming experience is expected; we will spend some time exploring algorithms with the Python programming language.

CSC 116 Programming With Data

NS3 QR

3 cr

Introduction to programming techniques for the manipulation and analysis of digital data. Programming topics include: digital representations of data, types of data, programming decision and repetition, functions and libraries for storing and manipulating data in the language of instruction (e.g., the pandas library of Python). Data topics include: common formats (e.g., CSV, JSON, XML, database), missing data, cleaning data, exploratory data analysis. Visualizing and presenting data to support an argument. Cross-listed with DAT-116.

CSC 117 Image and Reality

3 cr

Explores the current reality of artificial intelligence and visions of what it is and will be. Examination of current artificial intelligence systems. Particular emphasis on robotics, with projects involving robot design, creation and programming. Laboratory.

Prerequisite: MTH-100 or Placement

CSC 117L Image and Reality Laboratory

1 cr

Laboratory component required for noted course.

CSC 118 Introduction to Game Programming

3 cr

Introduction to programming, focusing on fundamental knowledge and skills for creating videogames. Multiple platforms, including a popular game engine such as Unity or Unreal and the game-writing support in a popular language such as Python.

Prerequisite: MTH-100 or Placement

CSC 119 Computer Science for Everyone

QR

3 cr

Introductory overview of fundamental concepts in computer science. Topics include digital representation of information (media, text, numbers), algorithms, ways of approaching programming, the relationship between software and hardware, and the limitations of computers. No previous programming experience expected.

CSC 119L Computer Science for Everyone Laboratory

1 cr

Laboratory component required for noted course.

CSC 121 Problem-Solving With Python

NS3

3 cr

Intensive study of algorithm problem-solving and effective programming using the Python programming language. Use of Integrated Development Environments (IDEs). Overview of functional, imperative, and object-oriented programming techniques. Using and creating modules and libraries. Python's object model. Laboratory.

Prerequisite: CSC-116, CSC-118 or CSC-119

CSC 121L Problem-Solving With Python Laboratory

1 cr

Laboratory component required for noted course.

CSC 122 Network and Web Programming

NS3

3 cr

Introduction to the design and operation of the internet, especially the World Wide Web. Introduction to client/server applications. Presentation languages such as HTML and CSS; using the Document Object Model to navigate webpages. Implementing client and server applications in a language such as Python or JavaScript.

Prerequisite: CSC-115 or DAT-116 or CSC-118 or CSC-119

CSC 230 Object-Oriented Design and Programming

NS3

3 cr

Focus on object-oriented (OO) design and programming, using a strongly object-oriented language such as Java. Defining characteristics of OO design including inheritance and class hierarchies, polymorphism, information hiding and encapsulation. OO analysis and design practices including design patterns. Design and implementation of applications with many interacting classes.

Prerequisite: CSC-121

CSC 240 Algorithms and Data Structures

NS3

3 cr

Relationships between algorithms and data structures. Analyzing the time and data storage requirements of algorithms; selecting the optimal algorithm for a given application. Standard library data structures; implementing data structures.

Prerequisite: MTH-120 and CSC-115 and CSC-121

CSC 280 Topics in Computer Science

NS3 2-3 cr
 Topical study in computer science. While topics vary, the course usually introduces a particular computer programming language (e.g., C, C++, Prolog, etc.).
Prerequisite: CSC-121

CSC 310 Computer Organization

NS3 3 cr
 Structure and organization of digital computers, including digital representation of data, digital circuit ("logic") design, and memory addressing schemes. Introduction to low-level programming languages, including assembly languages and programmatic memory management. Laboratory. Course fee.
Prerequisite: CSC-121 and MTH-120

CSC 310L Computer Organization Laboratory

1 cr
 Laboratory component required for noted course.

CSC 315 Machine Learning

NS3 3 cr
 Principles and techniques for machine-based decision and prediction from large datasets. Algorithms for and applications of classification, regression, and unsupervised learning. Introduction to neural networks and deep learning. Use of machine learning libraries in languages such as Python and R.
Prerequisite: DAT-116 or CSC-121

CSC 335 Computer Graphics

NS3 3 cr
 Introduction to techniques of computer graphics including three-dimensional representations, perspective, computer animation, computer art and applications of computer graphics to various other disciplines.
Prerequisite: CSC-230

CSC 345 Artificial Intelligence

NS3 3 cr
 Survey of major topics in artificial intelligence. Emphasis on fundamental concepts: search, knowledge representation, problem solving and logic. Additional topics such as expert systems, learning, natural language processing, neural networks, planning, theorem proving and vision. Programming in an AI language.
Prerequisite: CSC-121

CSC 355 Game Engine Fundamentals

NS3 3 cr
 Explore the capabilities and use of 3D game engines for computer game creation. Game engines combine 3D computer graphics, game physics, digital audio, 3D modeling, scene and level creation, and human-computer interaction technologies into a unified framework for game development. Design work will include using scripting languages to extend engine capabilities. Class projects will be team-based and work toward a complete game implementation.
Prerequisite: 200-level CSC course.

CSC 380 Topics in Computer Science

NS3 2-3 cr
 Special topics in computer science.
Prerequisite: CSC-335

CSC 410 Database Management

NS3 3 cr
 In-depth study of techniques for storing, selecting and retrieving data. Topics selected from file and database organization, safety and recovery, privacy, security and commercial systems.
Prerequisite: CSC-230

CSC 420 Operating Systems

NS3 3 cr
 Survey of major concepts of operating systems. Investigation of relationships among the operating system, the architecture and the systems programs of a computer system. Laboratory.
Prerequisite: CSC-310

CSC 420L Operating Systems Laboratory

1 cr
 Laboratory component required for noted course.

CSC 430 Theory of Computing

NS3 3 cr
 In-depth study of the main components of the theory of computation: finite automata and computability.
Prerequisite: MTH-223

CSC 440 Programming Languages

NS3 3 cr
 An in-depth study of the principles of programming languages. Overview of the major programming language paradigms in historical and modern contexts. Syntactic and semantic characteristics; fundamentals of language translation. Runtime structures, including binding and scope. Focus on learning new languages quickly through an analysis of language characteristics.
Prerequisite: CSC-230 and CSC-310

CSC 450 Software Collaboration

NS3 3 cr
 Techniques and practices for the collaborative production and maintenance of software. Software development methodologies. Sharing and managing project assets. Testing, integration, and delivery. Project management. Focus on collaborative creation of a working prototype of a useful software application.
Prerequisite: CSC-122, CSC-230 and CSC-240

CSC 470 Computer Science Capstone

NS3 3 cr
 Project-based synthesis of skills and knowledge from computer science and general education courses. Most projects will emphasize team-based development of software that addresses a problem in the Alma/College community.
Prerequisite: CSC-450

CSC 500 Senior Thesis

NS3 1-3 cr
Requires department permission.

Dance (DAN)

Dance Major Requirements

Twenty-nine credits, which must include:

- Four credits of Physical Practice, from the following categories*:
 - Minimum one credit from DAN-244 Intermediate Ballet or DAN-344 Advanced Ballet;
 - Minimum one credit from DAN-240 Intermediate Modern or DAN-340 Advanced Modern;
 - Complete DAN-160 and 245, or other approved physical practice course approved by DAN dept.
- Four credits of Performance: DAN-151 or other approved theater performances, or independent projects.
- Nine credits of Foundations of Dance Research: DAN-146, 201, and 351.
- Ten credits of Applications of Dance Research: DAN-220, 302, 384, and 385.
- Two credits of Dance Research Synthesis: DAN-495 or 500

*All Physical Practice courses are repeatable for credit.

Dance Minor Requirements

Eighteen credits, which must include:

- Four credits of Physical Practice, from the following categories*:
 - At least one credit from DAN-244 Intermediate Ballet or DAN-344 Advanced Ballet
 - At least one credit from DAN-240 Intermediate Modern or DAN-340 Advanced Modern
 - DAN-160 and 245

- Two credits of Dance Performance: DAN-151 or other approved theater performances, or independent projects.
- Nine credits of Foundations of Dance Research: DAN-146, 201, and 351.
- Three additional elective credits in DAN.

*All Physical Practice courses are repeatable for credit.

Students bound for graduate school, or the dance-teaching profession, should choose courses to support their area of emphasis. Participation in research and additional coursework in choreography, pedagogy, theatre, music, business, physiology, and anatomy is recommended.

DAN 146 Viewing and Doing

AH EXP1 3 cr
Investigation of dance as an art form. Investigates dance history through movement awareness, improvisation, exploratory exercises and games. Collaboration with class members to create a performance atmosphere is an integral part of the course. Course is intended for students with all levels of dance experience, including beginners.

DAN 147 Dance Fundamentals

AH EXP1 3 cr
This course introduces basic movement concepts, aesthetics, and qualities. It also covers the beginnings of modern dance, ballet, and jazz. The course will develop movement sequences based in all three techniques and differentiate vocabulary. Short writing assignments will complement studio requirements.

DAN 151 AC Dance Company

AH THM7 1 cr
Participation in dance concerts throughout the term. Opportunities for choreography, performance and organizational planning. May be repeated for credit. Final registration subject to audition.

DAN 160 Afro-Brazilian Dances

AH THM7 1 cr
Studio course that introduces vocabulary, history, and cultural aspects of Afro-Brazilian dance.

DAN 161 Hip-Hop

AH 1 cr
Students will engage in the technical practice of various Hip Hop dance techniques such as Breaking, Popping, Locking, House, and Waacking. There will be a focus on individual expressions as well as performing choreography and discussions of social structures surrounding the forms.

DAN 180 Topics in Dance

AH 3 cr
Special topics and projects selected by instructor in dance. Background *prerequisites* vary with selections.

DAN 191 Dance Professions

AH THM7 2 cr
Students will research and prepare application materials for a professional internship, training experience, or community dance project. Intended for Dance majors or minors. Students outside the major may join with instructor permission.

DAN 201 Choreography I

AH THM1 3 cr
Analysis of choreographic styles. Principles of various choreographers examined and experienced. Development of individual skills for choreographing.

DAN 220 Dance Pedagogy

AH 3 cr
This course examines practical, pedagogical, and philosophical approaches to teaching dance in different settings, including schools (K-12), recreation, and professional dance training. Through readings, discussions, lectures, individual and group assignments, students will develop and apply lesson plans based on practical and reflexive skills.

The content of this course includes the NDEO (National Dance Education Organization) and MAEIA (Michigan Arts Education Instruction and Assessment) standards. Different genres of dance may be included depending on the specialties of participants.

Prerequisite: 3 credits from DAN or Sophomore Standing

DAN 240 Intermediate Contemporary Forms

AH THM7 1 cr
This is a contemporary dance technique course. We will explore somatic pathways into complex rhythmic structures and attention to anatomy and physiology. This will develop virtuosic expressivity and movement. Intended for students with dance experience. May be repeated for credit.

Prerequisite: DAN-147

DAN 244 Ballet II Intermediate

AH THM7 1 cr
Continuation of Ballet I. Development of ballet combinations and concentration on body alignment. May be repeated for credit.

Prerequisite: Departmental permission

DAN 245 Jazz Dance

AH THM7 1 cr
This course looks at the practice of jazz dance throughout U.S. history. We will consider key styles and techniques, emphasizing rhythm, improvisation, shape, and isolations. This class is for multi-level learners. May be repeated for credit.

Prerequisite: DAN-147

DAN 248 Highland Dance Technique

AH THM7 1 cr
Study and practice of traditional Scottish dance technique. Technical accuracy, style and conditioning stressed. Emphasis on performance preparation. May be repeated for credit.

DAN 280 Topics in Dance

AH 1-3 cr
Special topics and projects selected by instructor in dance. Background prerequisites vary with selections.

DAN 302 Dance Composition

AH THM7 2 cr
Dance composition is the foundation of group choreography, which requires an examination of different theories, literacies, and examples in order to achieve an original piece of art. We will look at many examples of choreographers' group compositions as reference points. This course will require one short group composition and one paper.

DAN 340 Modern Dance III Advanced

AH THM7 1 cr
This is an advanced contemporary dance technique course. We will explore somatic pathways into complex rhythmic structures and attention to anatomy and physiology. This will develop virtuosic expressivity and movement. Intended for students with dance experience. May be repeated for credit.

Prerequisite: DAN-240

DAN 344 Ballet III Advanced

AH THM7 1 cr
Continuation of Ballet II. Emphasis on further development of style and technique. May be repeated for credit.

Prerequisite: department permission

DAN 351 Writing About Dance

AH WI THM1 THM5 3 cr
Development of the analytical methods, observational skills, and contextual knowledge required to write about a live art form such as Dance. Surveys cultures and styles of dance that have shaped the human experience and led to the global contemporary dance landscape. Inclusive of culturally-specific and hybridized forms represented around the globe. Required for Dance majors and minors, designed to benefit students in related fields that depend on visual analysis, argumentation, and descriptive writing.

Prerequisite: DAN-146 and ECL-101

DAN 380 Topics in Dance

AH 3 cr
Special topics and projects selected by instructor. Background prerequisites vary with selections.

DAN 384 Dance Professional Practice

3 cr
Students will research and prepare application materials for a professional internship, training experience, or community dance project. Intended for Dance majors or minors. Students outside the major may join with permission from the Dance department.
Prerequisite: DAN-191

DAN 385 Dance Practicum

1 cr
Culmination of Dance Professional Practice; students will complete intended professional experience and submit evidence. Pass/Fail Only.
Prerequisite: DAN-384 and department permission

DAN 480 Topics in Dance

AH 1 cr
Special topics and projects selected by instructor. Background prerequisites vary with selections.

DAN 495 Senior Capstone

2 cr
This course is required for dance majors in their senior year who are not enrolled in DAN-500 (Senior Thesis). The capstone can be either a paper or a performance. The paper must evidence advanced research that explores a specific topic in dance studies chosen by students in conjunction with their capstone advisor. The performance must be one of original choreography that is accompanied by a detailed written component or portfolio. This course may not be taken Pass/Fail.
Prerequisite: Junior Standing or department permission

DAN 500 Senior Thesis

AH 2-3 cr
Students with honors in Theatre and Dance must complete a Senior Thesis, approved and directed by the Department. Students must present their thesis on Honors Day or other approved public Forums.

Data Analytics (DAT)

Data Analytics Minor Requirements

Twenty credits, which must include:

1. DAT-115 and 315;
2. Introduction to programming: DAT-116 or CSC-119
3. Upper-level statistics: MTH-242 or 342
4. Data analytics project: 2 credits from DAT-385 or 399.
5. Data-intensive electives: Six credits from the following courses, at least 3 credits completed at the upper-level: BUS-317, 417; CSC-345, 410; ECN-217, 317; KHS-230, 330; MTH-116, 192, 336, 341; PHY-221; POL-210, 316. Additional electives may be approved in consultation with the math and computer science departments.

DAT 115 Introduction to Data Analytics

NS3 QR 3 cr
Introduction to graphs, calculations, and models for summarizing data, gaining insights from data, and making predictions. Discusses variation in data and how to ensure conclusions are justified. Example data sources include business, economics, medical studies, and sports statistics. Uses both a spreadsheet program, such as Microsoft Excel, and a statistics-oriented computing platform, such as R.

DAT 116 Programming With Data

NS3 QR 3 cr
Introduction to programming techniques for the manipulation and analysis of digital data. Programming topics include: digital representations of data, types of data, programming decision and repetition, functions and libraries for storing and manipulation data in

the language of instruction (e.g., the pandas library of Python). Data topics include: common formats (e.g., CSV, JSON, XML, database), missing data, cleaning data, exploratory data analysis. Visualizing and presenting data to support an argument. Cross-listed with CSC-116.

DAT 315 Machine Learning

NS3 3 cr
Principles and techniques for machine-based decision and prediction from large datasets. Algorithms for and applications of classification, regression, and unsupervised learning. Introduction to neural networks and deep learning. Use of machine learning libraries in languages such as Python and R.
Prerequisite: DAT-116 or CSC-121, and MTH-242

DAT 385 Data Analytics Project

2 cr
Practicum in the field of Data Analytics.

Design (DES)

Design Minor Requirements

Eighteen credits, which must include:

1. DES-101, 131, 231, and 245;
2. Six credits of DES coursework at 300-level or above.

DES 101 Design Fundamentals

EXP1 3 cr
Work in a hands-on studio environment exploring how design principles, information hierarchy, layout and typography contribute to meaning. Learn to harness a problem-solving framework to address project-based challenges across a variety of media. Develop an understanding of the tools and terminology of design practice.

DES 131 Concept, Process, and Play

EXP1 3 cr
Exploring the creative process and the principles of play, designed to equip students with ideation and creative thinking skills. Through a blend of theory, practical exercises, and hands-on projects, students will investigate the relationship between form and meaning, concept development and how to visually explore ideas in any medium. Open to students of any experience level and any visual medium. Course fee.

DES 231 Branding, Authenticity & Disruption

3 cr
Explore branding and how brands, institutions and movements use visual vocabularies to appeal to specific audiences. Work in a hands-on studio environment to develop visual messages that reflect an understanding of the broader visual landscape. Develop appropriate strategies and messages across a variety of media/formats. Course fee.
Prerequisite: DES-101

DES 245 UI/UX Design

3 cr
Learn the fundamentals of user interface and user experience design. Use a design process framework to understand users needs and develop appropriate strategies for developing apps, websites, and other human-computer interactions. Develop UI or UX projects through user research, testing and feedback. Learn to use industry standard software to prototype concepts and refine ideas. Course fee.
Prerequisite: DES-101

DES 284 Experimental Form Making

THM7 3 cr
Exploring unconventional ways of producing form across diverse visual mediums. Through a mix of theory and hands-on exploration, students will discover unconventional techniques, emerging technologies, "irrelevant" technologies, and systematic approaches to form-making. The format of the class is open to 2D art, 3D art, design, photography, video or any other visual medium. Open to students of any experience level. Course fee.
Prerequisite: DES-101

DES 321 Project Management

3 cr

This course examines activities related to project management, project planning, and estimating project scope and schedule. It also examines processes for managing project resources and collaborating. Upon completion of this course, students are expected to be able to do the following: Plan and estimate project scope, resources, and schedules.

Prerequisite: Junior or Senior Standing

DES 331 Design Thinking

3 cr

Learn the principles of design thinking and innovation in a hands-on studio setting. Use the design thinking process to identify and frame challenges and create solutions that reflect an understanding of audience and context. Develop creative thinking skills in a collaborative project-based course. Course fee.

Prerequisite: DES-101

DES 401 Design Entrepreneurship

THM7

3 cr

Exploring design entrepreneurship with a focus on creativity and self-discovery. Through a blend of theory, practical exercises, and real-world projects, students develop skills needed to identify market opportunities, generate innovative ideas, and translate their vision into tangible outcomes. This course provides a platform to cultivate students' unique voices and take an idea from concept to fruition. Course fee.

Prerequisite: DES-101

DES 431 Design in Context

3 cr

Learn to plan, design, and implement solutions using a design thinking framework with community partners. Develop collaborative process skills while learning to address specific audience and contextual factors and address unframed challenges in this civically engaged studio course. Course fee.

Prerequisite: DES-331

DES 450 Senior Capstone

3 cr

Independently plan and execute a capstone project that applies their specialized skills in digital marketing to a challenging problem and with lasting impacts. Present projects to be assessed by a panel of faculty and industry judges at a public exhibition, which the class organizes and hosts. Professionalization topics such as portfolio development, resumé and cover letter writing, and interview strategies will be addressed.

Prerequisite: Senior Standing

Economics (ECN)

Includes Financial Economics Major

Economics Major Requirements

Twenty-seven credits, which must include:

1. ECN-111 and ECN-112, or other approved 100-level ECN course;
2. ECN-217 and ECN-317;
3. Fifteen credits of ECN taken at or above the 300-level.

Note: The Department recommends that students supplement the major with courses from other areas, including (but not limited to) Business Administration, Computer Science, Mathematics, Philosophy, Political Science, and Psychology. Students interested in Economics graduate work are strongly encouraged to take at least a year of calculus or other advanced Mathematics classes. Computer Science classes are also useful as preparation for Economics graduate work.

Economics Minor Requirements

Eighteen credits, which must include:

1. ECN-111 and ECN-112, or other approved 100-level ECN course;
2. Twelve additional credits of ECN coursework (which may not be taken Pass/Fail credit).

Financial Economics Major Requirements

Thirty-nine credits, which must include:

1. ECN-111, 112, 217, 317, 320, 332, 385;
2. BUS-117, 121, 309, 410, 415;
3. ACC-221.

Departmental Honors in Economics

A major GPA of 3.5 or higher is required, along with the completion and public presentation of a research project.

ECN 111 Principles of Macroeconomics

SO EXP2

3 cr

Introductory survey of macroeconomic theory and national policy. Supply and demand analysis and solutions to basic economic problem of scarcity in the American economy. Examines relationship between national income and its determinants with emphasis on role of fiscal and monetary policies in stabilizing national economic performance.

ECN 112 Principles of Microeconomics

SO EXP2

3 cr

Introductory survey of microeconomic theory. Principles of consumer demand; production, exchange and distribution in capitalist economies; labor and resource markets; international trade and exchange rate theory and policy.

ECN 180 Readings in Economics

SO

1-3 cr

Selected introductory topics in Economics announced in advance. May be taken more than once for credit if topics are different.

ECN 217 Quantitative Methods

SO QR

3 cr

An introduction to a variety of the quantitative methods used in the social sciences. Students will learn the basic probability and research design theory necessary for understanding and applying quantitative methods in social sciences. Students will replicate data analyses and conduct their own with real world data. Students will learn to use statistical software, like R.

Prerequisite: One math class at MTH-110 level or higher

ECN 312 Intermediate Microeconomics

SO

3 cr

Price mechanism and elasticity concepts. Theories of consumer behavior and producer behavior. Pricing in product and resource markets. General equilibrium theory.

Prerequisite: ECN-100 level

ECN 314 Behavioral Economics

SO THM3

3 cr

Study of economic decision-making from based on modified neo-classical assumptions. Students will explore selected themes from psychology, sociology, and neuroscience. We will also investigate the relevance of behavioral economics to the formation of good public policy. Students will engage with the material through a combination of lectures, discussion, experiments, and research projects.

Prerequisite: ECN-100 level

ECN 317 Econometrics

SO WI

3 cr

Survey of standard forecasting techniques in business and economics. Introduces the use of econometric models with emphasis on multiple regression, simulation modeling and time-series analysis. Special attention to applying forecasting techniques to real-world data.

Prerequisite: ECN-100 level and ECN-217

ECN 320 Money and Capital Markets

SO THM3 3 cr
 Analysis of money and capital market instruments and financial market interrelationships. Investigates role of financial intermediaries as both suppliers and users of credit. Emphasizes influences of monetary policy and regulations on functioning of U.S. and world credit markets.
Prerequisite: ECN-100 level course

ECN 326 Economic Development

SO 3 cr
 Seeks to answer the question why some countries are rich and other countries poor. The role of the economist in development will be examined.
Prerequisite: ECN-100 level course

ECN 330 Sports Economics

SO THM3 THM5 3 cr
 Develop an understanding of how economics relates to collegiate and professional sports markets. Learn how to analyze decision-making by organizations, teams, and players, and the outcomes of those decisions.
Prerequisite: ECN-100 level course

ECN 331 International Trade

SO THM3 THM4 3 cr
 Examines the exchange across international borders of goods, services and factors, and the impacts of this trade on domestic and global economies both in theory and practice. Theories of trade are compared and contrasted to both empirical studies and histories of trade. Topics include free trade, commercial policy, barriers to trade, foreign investment, imperialism and political economy of trade.
Prerequisite: ECN-100 level course

ECN 332 International Finance

SO THM3 3 cr
 Examine the principles and practical aspects of international finance. Theories of exchange rate determination are compared and contrasted. Topics include, but are not limited to: comparative advantage, arbitrage, international macroeconomics, foreign exchange issues, global money and capital markets, exchange rate forecasting and interest rate swaps.
Prerequisite: ECN-100 level course

ECN 340 Environmental Economics

SO 3 cr
 Survey of both theories and practices of the economics of natural resources and the environment. Topics include: notions of value and property, externalities, renewable and nonrenewable resources, willingness-to-pay arguments, cost-benefit analysis, natural resource policy, hazardous waste, environmental policy, sustainable development, and environmental racism and classism.
Prerequisite: ECN-100 level course

ECN 345 Labor Economics

SO THM3 3 cr
 Survey the field of labor economics. Topics include the theory of allocation of time, life cycle theory, labor supply, theory of the firm, labor demand, wage determination, human capital theory, occupational wage differentials, and theories of labor market discrimination.
Prerequisite: ECN-100 level course

ECN 350 Environmental Policy Analysis

SO THM5 THM6 3 cr
 This course is an exploration of the science and economic foundations behind environmental issues. Current and past environmental policy is analyzed with reference to the scientific and economic realities surrounding specific problems and solutions. Students study theoretical foundations of Environmental Economics and cost-benefit analysis, and use this knowledge to practice policy analysis from the perspective of equity and equality. Students work on real-world projects that emphasize smart policy based on sound science and economic principles.
Prerequisite: Sophomore Standing plus any ECN 100-level class OR any 100-level ENV class.

ECN 380 Topics in Economics

SO 3 cr
 Selected topics in economics announced in advance. May be taken more than once for credit if topics are different.
Prerequisite: ECN-111 or ECN-112

ECN 385 Economics Practicum

3 cr
 Practicum in the field of Economics. Junior Standing or permission.

ECN 500 Senior Thesis

SO 3 cr

Education (EDC)

The Michigan State Board of Education certifies all teachers. Alma College is authorized to recommend to the State Board those students who have completed a bachelor's degree, passed state required Subject Tests in endorsement areas, and successfully fulfilled all requirements of the Teacher Education Program. The Education Department offers majors and minors leading to teacher certification. The Department also offers a non-certification Educational Studies Major and Minor and Special Education Minor. Certification requirements are subject to change by action of the State Board of Education and may not be reflected in this catalog.

Teaching Major and Minor Requirements:

Requirements for Teaching Majors and Minors are in the subject area department listings or in the Education Department listing. Students should consult with the Education Department about requirements. Graduation Requirements: Students who are in the Teacher Education Certification Program shall only be deemed as satisfying graduation requirements when all required courses for certification are complete.

Departmental Honors in Education

Students may achieve honors in Education by:

1. An approved application to pursue honors in education
2. Earning a 3.5 GPA in an Education major (elementary education, secondary education, or educational studies) and a 3.3 overall cumulative GPA.
3. Performing at a superior level in the culminating Departmental experience of student teaching or an educational studies internship (EDC-470).
4. Preparing a senior thesis of honors caliber and presenting it at an appropriate public forum.
5. Earning a minimum grade of AB in EDC-500.

PK-6 Major Requirements

PK-6 Major allows you to teach in preschool through sixth grade classrooms. To be recommended for certification, the candidate must complete the PK-6 Major and pass the PK-3 or 3-6 certification test. Candidates are strongly encouraged to take certification tests for PK-3 and 3-6 grade bands to have multiple endorsements.

Eighty-four credits, which must include:

1. EDC-101, 101C, 102, and EDC-151;
2. EDC-202, 209, and 211;
3. EDC-227, 250 or 376;
4. EDC-321, 364, 364C, 366, 366C, 367, 367C, 368, 368C;
5. EDC 501, 502, and 503;
6. HST-104 and 206;
7. ISC-101 and 301;
8. MTH-204, 205 and 206;
9. ECL-111, 211, and 212.

Secondary Education Major Requirements

The Secondary Education Major may only be completed with another valid Alma College Teaching Major or two Teaching Minors. Some certification endorsement areas require an additional Teaching Major or Teaching Minor.

Thirty-eight credits, which must include:

1. EDC-101, 101C, 102, and 151;

2. EDC-202 and 211;
3. EDC-321 and 346;
4. EDC-227, 250, or 376;
5. EDC-501, 502, and 503.
6. The Secondary Education major must be completed with another valid Alma College Teaching Major or two Teaching Minors. Some certification endorsement areas require an additional Teaching Major or Teaching Minor.
7. Candidates must meet required student contact hours for initial and additional endorsements.
8. Candidates pursuing the Business Teaching Major must complete EDC-303B; students pursuing Music Education must complete EDC-303MU.

Special Education: Mild to Moderate Disabilities Major

The Mild to Moderate Disabilities program provides a pathway to special education teacher licensure with State of Michigan teaching endorsements in Learning Disabilities, Cognitive Impairment, and Emotional Impairment.

Seventy-eight credits, which must include:

1. EDC-151, 205, 250, 255, 256, 376, 377, 378, 423, 428, 507, and 508.
2. EDC-101, 102, 202, 211, 321, 366, 366C, 368, and 368C.
3. MTH-204, 205, and 206;
4. ECL-111, 211, and 212.
5. For certification, students must pass the MTTC Learning Disabilities test #114 for the initial endorsement.
6. Students may earn additional endorsements by passing MTTC tests in Emotional Impairment #116 and Cognitive Impairment #115.
7. Students may earn an additional endorsement in PK-6 or Secondary Education with a subject area to become a certified general education teacher.

Teacher Certification Requirements

Certification allows teaching in grade bands PK-3, 3-6, 5-9 and/or 7-12 and in subjects in which the candidate has earned an endorsement. To be recommended for certification by Alma College, the candidate must complete the following:

1. An Education Major with a 2.5 GPA.
2. No Education course may be taken Pass/Fail (except for 1 credit placement classes and EDC 501, 502, 505, 506, and 508) or graded below a 2.00 ("C" grade).
3. For PK-6, Social Studies, and Science Teaching Majors, no course required for certification may be graded below a 2.0 (C).
4. For Secondary Education (i.e., Middle Grades (5-9) and High School (7-12)), complete at least one Teaching Major or two Teaching Minors.
5. A 2.5 GPA is required for all teaching subject endorsement areas unless otherwise noted.
6. An overall cumulative GPA of 2.75 is required for Alma College to recommend a student for certification.
7. Students must also pass the appropriate MTTC test/s for each grade band and/or subject. For initial certification or additional endorsement areas, MTTC passing scores will remain valid for five years.

Teaching Endorsements

Alma College offers the following Teaching endorsements for students seeking certification:

- Biology (7-12 major or minor; must also complete Science Teaching Major (5-12))
- Business, Management, Marketing and Technology (6-12 major only)
- Chemistry (7-12 major or minor; must also complete Science Teaching Major (5-12))
- English (5-12 major or 5-9 minor)
- History (7-12 major only; must also complete Social Studies Teaching Major (5-12))
- Lower Elementary Education: PK-3 (must complete PK-6 Major)
- Mathematics (5-12 major or 5-9 minor)

- Music (K-12 major only)
- Physics (7-12 major or minor; must also complete Science Teaching Major (5-12))
- Science (5-12 major or 5-9 minor)
- Social Studies (5-12 major or 5-9 minor)
- Special Education- Learning Disabilities (K-12 major only)
- Upper Elementary Education: 3-6 (must complete PK-6 Major)

Science Teaching Major (5-12)

Forty-seven credits, which must include:

1. BIO-121, 222, and 223
2. CHM-115 and 223
3. EGR-130
4. ENV-105
5. GEO-113
6. Either PHY-112 & 113, or 121 & 122
7. EDC-474 and 474C
8. Cognates:
 - a. For PHY-112: MTH-112, 113, or 121
 - b. For PHY-121: MTH-113 or 121
9. Successful completion of the requirements for the Secondary Education Major.
10. No course graded below 2.0 (C) may count toward a Science Teaching Major (5-12); a 2.5 grade point average in the Science Teaching Major (5-12) is required.

Science Teaching Minor (5-9)

Twenty-five credits, which must include:

1. BIO-121 and 222;
2. CHM-115 and EGR-130;
3. GEO-113;
4. ISC-101 and 301;
5. EDC-474 and 474C.
6. Successful completion of the requirements for the PK-6 or Secondary Education Major.
7. No course graded below 2.0 (C) may count toward a Science Teaching Minor (5-9); a 2.5 grade point average in the Science Teaching Minor (5-9) is required.

Social Studies Teaching Major (5-12)

Thirty-four credits, which must include:

1. ECN-111 and 112;
2. GGR-200;
3. POL-101 and 121;
4. 12 credits of HST Courses:
 - a. HST-100 or 101
 - b. HST-104 or 105
 - c. Two additional HST courses (6 credits), with at least one being an upper-level course, from the following: HST-100, 101, 104, 105, 107, 140, 206, 228, 230, 253, 254, 323, 327, 328, 336, 352, 353, 425, 434.
5. One additional social science course (3 credits), from the following:
 - a. REL-100, 150, 207, 208, 209
 - b. SOC-101, 141, 222, 223, 225
6. EDC-477 and 477C.
7. Successful completion of requirements for Secondary Education major.
8. No course graded below 2.0 (C) may count toward a Social Studies Teaching Major; a 2.5 grade point average in the Social Studies Teaching Major (5-12) is required.
9. For certification, take and pass the MTTC 5-9 and/or 7-12 Social Studies test, and 5-9/7-12 Professional and Skill tests.

Social Studies Teaching Minor (5-9)

Twenty-two credits, which must include:

1. ECN-111 or 112;
2. GGR-200 and POL-101;
3. HST-100, 104, and 105;
4. EDC-477, 477C.
5. Completion of another teaching minor or major

6. Successful completion of requirements for the Secondary or PK-6 Education major
7. No course graded below 2.0 (C) may count toward a Social Studies Teaching Minor
8. 2.5 GPA is required
9. For certification, take and pass the MTTC 5-9 Social Studies test, and Professional and Skills test.

Special Education: Learning Disabilities Major (Secondary or PK-6)

The Learning Disabilities major is designed to be paired with the PK-6 Education major or Secondary Education major with a teaching content area leading to dual preparation in general and special education.

Thirty credits, which must include:

1. EDC-151, 205, 250, 255, 375, 376, 505, 506, and 507;
2. EDC-256 or EDC-227.
3. For certification, take and pass the MTTC Special Education Learning Disabilities test.
4. For Secondary Education majors, a candidate must complete the Secondary Education Program, a content endorsement area, and the Special Education Program to become endorsed in learning disabilities.
5. No course graded below 2.0 (C) may count toward a Special Education Major; 2.75 GPA is required.

Classroom Placement Students- Background Check

Michigan school districts require anyone who has contact with children in their school buildings, including staff or volunteers, to provide the district with documentation of central registry clearance. All students who have an Education course with a classroom placement must have a background check completed through an approved program. See the Education Department for more details. School Districts may require additional screenings.

Student Teacher Fingerprinting Procedure

The Education Department requires fingerprinting of student teachers. All student teachers must have the Criminal Background Check Livescan fingerprinting procedure completed prior to beginning student teaching in their assigned district. Fingerprint records must remain valid throughout your student teaching period. Livescan must be completed at a Michigan Department of Education-approved site and is a statewide procedure. A fee is charged for this service. See the Education Department for more details.

Admission to the Teacher Education Program (TEP)

The Education Department reviews all applicants and judges their suitability for entrance to the program during the student's sophomore year; students who decide to seek teacher certification after the sophomore year can be admitted late but may require extra time to complete the program. For full approval students must have the following:

1. A completed application (on Tk20) for admission to the TEP submitted by the deadline.
2. A cumulative GPA of at least 3.0. Candidates with a GPA between 2.75 and 2.99 may be admitted provided that the mean cohort GPA remains above 3.0.
3. Demonstrate proficiency in writing and mathematics as determined by Alma College.
4. Evidence that the applicant has dispositions conducive to success in the teaching profession (as indicated by disposition assessment forms, Student Life reports, the recommendation of the Education Department, and a Felony Conviction Statement confirming that the student has not been convicted of any act contributing to the delinquency of a minor or involving moral turpitude).
5. Good standing - student life.
6. All majors(s) and minor(s) must be declared through the Registrar's Office at the time of TEP application. Be aware that these requirements are subject to change in accordance with state or national accreditation mandates.

Admission to Student Teaching

The Education Department reviews a student for admission to Student Teaching. For full approval, students must have the following:

1. Admission to the Teacher Education Program
2. A formal application for student teaching submitted by November 15 of the academic year prior to student teaching.
3. A 2.75 overall cumulative GPA
4. A 2.5 GPA in Education courses and a passing grade of C or above in all Education courses
5. For both PK-6 and Secondary Education: a GPA in all Teaching Major(s) and/or Minor(s) of 2.5; and if applicable, a C or above in all classes in Social Studies Teaching (5-9 or 5-12), Science Teaching (5-9 or 5-12), and Special Education endorsements.
6. Evidence that the applicant has dispositions conducive to success in the teaching profession (as indicated by disposition assessment forms, the recommendation of the Education Department, and a Felony Conviction Statement confirming that the student has not been convicted of any act contributing to the delinquency of a minor or involving moral turpitude).

Additional Notes

1. Admission to the Teacher Education Program is a prerequisite for all classes at the 300 level and above for certification candidates except for EDC-321.
2. Note on scheduling: it is expected that students attempt no more than 45 hours in placement classes in any semester.
3. Once approved for the student teaching internship, the requirements must be retained in order to begin the student teaching term.
4. Student teachers may not participate in significant non-teaching activities such as arts or sports without securing prior written approval from the Education Department.

Educational Studies Major

The Educational Studies Major is designed for those interested in education in a variety of fields but who are not currently interested in earning teacher certification.

Twenty-nine to forty credits, which must include at least 15 upper-level credits and the following major requirements:

1. EDC-101, 101C, 102, 151, and 308;
2. Complete one of the following concentrations (13-24cr):
 - Special Needs (13cr): EDC-152, 250, 255, 374, or 376.
 - Pedagogy (24cr): EDC-202, 314, 316, 364, 364C, 366, 366C, 367, 367C, 368, 368C, or 374.
 - Literacy (16cr): EDC-166, 266, 366, 366C, 346 or 466.
 - Science Education in Informal Settings (22cr): ISC-101, 301, EDC-364, 364C, ENV-105, 110, GEO-101, 113 or other courses approved by EDC.
3. EDC-470 Internship (5cr)

Educational Studies Minor

The Educational Studies Minor is designed for students interested in education in a variety of fields but who do not intend to earn teacher certification.

Eighteen credits which must include:

1. EDC-101, 102, 151, 202, 211;
2. Three additional upper-level credits in EDC.

Special Education Minor

The Special Education minor is designed for students who plan to work with individuals with disabilities in educational or related human-service settings. The minor does not lead to K-12 special-education teacher certification, but provides strong preparation for collaborating with and supporting learners with diverse needs.

Eighteen credits, which must include:

1. EDC-151, 250, 255, and 376;
2. EDC-256 or EDC-227;
3. One course from the following: PSY-203, 314, 331, or EDC-423.

EDC 101 Introduction to Education

3 cr

Provides a foundation to PK-12 education focused on access and equity; introduces learners and learning theory, school and society, approaches to teaching, and core teaching practices. Supports the development of reflective practice with attention to diverse perspectives and responsibilities of educators.

Prerequisite: Must be taken concurrently with EDC-101C.

EDC 101C Intro to Education Clinical Experience

1 cr

Exploration of the teaching profession through structured observation and participation in classroom settings at grade levels and subject areas appropriate for career interests. Includes 30 hours of clinical experience. Pass/Fail Only. Course fee

Prerequisite: HS graduation or instructor permission, must be taken concurrently with EDC-101

EDC 102 Child Development in Education

EXP2

3 cr

Psychological theories and research of human development applied to classroom learning; includes examination of the multiple interrelated areas of child development and learning, learning processes, and motivation to learn; also examines the complex and multiple influences on development and learning.

EDC 151 Introduction to Special Education I

EXP4

3 cr

Explore the field of special education across early childhood through transition to post-secondary services. Examine common disabilities, legal and historical foundations, and the continuum of services that support access and improved outcomes. Gain practical understanding of the IEP process, measurable goals, and individualized instruction, while developing skills for collaborating with families and school professionals to increase participation and success for students with exceptionalities.

EDC 180 Topics in Education

2-3 cr

Special topics in education. Possible Course fee.

EDC 190 Field Experience in Education

1-3 cr

Arranged assignment in an education setting intended to enhance a student's understanding of teaching and learning. Requires department permission.

EDC 202 Learning Environments

3 cr

Links child development with behavior management theories to create productive learning environments and support students' development of social skills.

Prerequisite: Sophomore Standing

EDC 205 Special Education Clinical I

1 cr

Work with students identified with a learning disability and collaboratively plan interventions/services including diagnosis, assessment, and specific remedial techniques. Experience the IEP process including the creation of goals and objectives which frame a student's learning. Thirty hours of clinical experience. Pass/Fail Only.

Prerequisite: EDC-151 and EDC-152

EDC 209 The Arts, Health, and Movement in PK-6

1 cr

Research-based instructional strategies to support the whole child's learning and development through visual and performing arts, movement, physical activities, and development of critical knowledge, skills, and behaviors that contribute to life-long health.

EDC 211 Strategic Partnerships

GCA

3 cr

Explores the role of school-community partnerships, professional and ethical approaches for working with children and families, and an

overview of the Michigan State Board of Education Code of Ethics. Focuses on developing positive relationships with families and increasing equitable access to learning opportunities.

Prerequisites: EDC-101

EDC 227 Teacher Leader

3 cr

Students planning to work with children in the PK-12 setting will explore the essential leadership skills necessary for crafting learning environments that stimulate creativity, innovation, and collaboration.

EDC 250 Introduction to Learning Disabilities

THM3

3 cr

Characteristics of individuals with learning disabilities. Interventions and services including diagnosis, assessment, and specific remedial techniques. Correlating factors leading to identification. Implementation of evidence-based practices through lesson planning and hands-on experience. Ten hours of clinical experience.

Prerequisite: EDC-151 or EDC-152

EDC 255 Transition Management in Special Education

3 cr

Preparation of exceptional students for transition to adulthood. Life skills and Social-Emotional Learning. Barriers and challenges which interfere with high school completion and transitioning to the post-secondary setting will be discussed. Ten hours of clinical experience.

Prerequisite: EDC-151 or EDC-152 or Sophomore Standing

EDC 256 Mild to Moderate Disabilities I

3 cr

Characteristics of individuals with cognitive and behavioral challenges. Interventions and services including diagnosis, assessment, and specific remedial techniques. Correlating factors leading to identification. Implementation of evidence-based practices through lesson planning and hands-on experience.

EDC 303 Secondary Ed Methods and Experience

1 cr

Topics and issues in instructional planning, teaching, and assessment are explored in-depth and with particular emphasis on secondary education and specific subject areas. Students spend 30 hours in secondary classroom placements, working in their major(s) content areas, and will have specialized teaching methods support in those subjects with an emphasis on best practices. Required for secondary certification. Fall Only. (Specific topics offered as EDC-303B, EDC-303E, EDC-303H, EDC-303MA, EDC-303MU, EDC-303PE, EDC-303S).

Prerequisite: TEP Approval

EDC 307 Substitute Teaching

3 cr

Students will practice strategies for handling consequential student behavior, presenting lesson material engagingly, and planning flexible lessons for different age groups. The course will also cover working with students from diverse backgrounds and reflecting on strategies for a successful substitute teaching experience.

Prerequisite: 60 earned credits, at least 2.0 GPA

EDC 321 Instructional Design

THM3

3 cr

Develop the knowledge and skills to design inclusive, engaging learning experiences by integrating instructional planning, assessment, and technology. Create collaborative learning environments, select and apply multiple assessment methods, and adapt curriculum to address learner needs, strengths, and cultures. Leverage digital tools to differentiate instruction, support feedback, and enhance access for all students. Hybrid format that supports learning through online instructional tools.

Prerequisite: Two courses from EDC 101, EDC-102, EDC-151, EDC-202 or EDC 211

EDC 346 Disciplinary Literacy

WI 3 cr
Survey of strategies for teaching, diagnosing and improving word recognition, comprehension and study skills. Survey of student language needs and program planning for reading instruction at the middle and senior high school levels. May include a service-learning component. Required for secondary certification. Fall Only.
Prerequisite: TEP Approval

EDC 364 PK-6 Science Methods

3 cr
Supports preservice PK-6 teachers learning to enact equitable and phenomena-based science instruction that is culturally relevant; responsive to student thinking; and engages students in disciplinary core ideas, science and engineering practices, and crosscutting concepts.
Prerequisite: TEP Approval, ISC-301, must be taken concurrently with EDC-364C

EDC 364C PK-6 Science Teach Clinical Experience

1 cr
Includes at least 30 hours of clinical experience, observation and direct work with students including planning, teaching, and assessment in PK-6 science. Students complete 15 hours in a structured field placement experience. Students additionally complete 15 hours of planning, teaching, assessment, and engaging with representations of science teaching outside of their structured field experience. Pass/Fail Only.
Prerequisite: TEP Approval, must be taken concurrently with EDC-364

EDC 366 PK-6 Literacy Methods

WI 3 cr
Examination of developmentally appropriate and research-based assessment and instruction for diverse literacy learners PK-6, including learning environment, curriculum, texts and resources, and development of specific literacy constructs.
Prerequisite: TEP Approval, ECL-211 or EDC-266; EDC-366C, must be taken concurrently.

EDC 366C Literacy Methods Clinical Experience

1 cr
Classroom apprenticeship includes 30 hours with mentor teacher in classroom setting at certification level; observation and direct work with teacher and students including co-planning, teaching and assessing in literacy processes. Pass/Fail Only.
Prerequisite: TEP Approval, must be taken concurrently with EDC-366

EDC 367 PK-6 Social Studies Methods

3 cr
Examination of developmentally appropriate methods for teaching PK-6 social studies emphasizing an inquiry approach integrating history, geography, political science, economics and civic engagement; emphasis on planning, teaching, assessment, classroom environment, and resources.
Prerequisite: TEP Approval, HST-104 or HST-206, must be taken concurrently with EDC-367C

EDC 367C PK-6 Social Studies Methods Clinical Exp

1 cr
Includes at least 30 hours of clinical experience, observation and direct work with students including planning, teaching, and assessment in PK-6 social studies. Students complete 15 hours in a structured field placement experience. Students additionally complete 15 hours of planning, teaching, assessment, and engaging with representations of social studies teaching outside of their structured field experience. Pass/Fail Only.
Prerequisite: TEP Approval, must be taken concurrently with EDC-367

EDC 368 PK-6 Mathematics Methods

QR 3 cr
Pedagogical knowledge for teaching mathematics to diverse learners. Includes building relationships with children, caregivers, and communities to support mathematics learning, instructional planning, productive dispositions, and use of assessments.
Prerequisite: TEP approval, MTH-204, MTH-205, MTH-206, must be

taken concurrently with EDC-368C

EDC 368C PK-6 Mathematics Teaching Clinical Experience

1 cr
Includes at least 30 hours of clinical experience, observation and direct work with students including planning, teaching, and assessment in PK-6 mathematics. Pass/Fail Only.
Prerequisite: TEP Approval, must be taken concurrently with EDC-368

EDC 375 Special Education Field II

1 cr
Evaluate IEP goals and objectives. Conduct assessment and plan/deliver instruction. Implemented appropriate teaching strategies. Modify instruction based on assessment data. Thirty hours of clinical experience. Pass/Fail Only.
Prerequisite: TEP Approval, EDC-205, EDC-250, EDC-255

EDC 376 Teaching Students W/ Learn. Disabilities

3 cr
Identification, assessment, and instructional planning for individuals with learning disabilities. Principles of instructional design, teaching methods and current practices of instructing students with learning disabilities.
Prerequisite: TEP Approval, EDC-205, EDC-250, EDC-255

EDC 377 Special Education Clinical-EI

1 cr
Work with students identified with behavioral challenges and collaboratively plan interventions/services including diagnosis, assessment, and specific remedial techniques. Experience the IEP process including the creation of goals and objectives which frame a student's learning. Thirty hours of clinical experience. Pass/Fail Only.

EDC 378 Special Education Clinical-CI

1 cr
Work with students identified with cognitive challenges and collaboratively plan interventions/services including diagnosis, assessment, and specific remedial techniques. Experience the IEP process including the creation of goals and objectives which frame a student's learning. Thirty hours of clinical experience. Pass/Fail Only.

EDC 385 Education Practicum

1-3 cr
Practicum in the field of Education. Requires department permission.

EDC 423 Mild to Moderate Disabilities II

3 cr
Identification, assessment, and instructional planning for individuals with cognitive and behavior challenges. Principles of instructional design, teaching methods and current practices of instructing students with cognitive and behavior challenges.
Prerequisite: EDC-256

EDC 428 Mild to Moderate Disabilities Clinical IV

3 cr
Develop and demonstrate procedures for implementing an Individualized Education Program. Ensure learning for special education students in a pull-out setting and within the general education environment. Deliver one-to-one, small-group, and large-group lessons using evidence-based practices which foster academic, social-emotional, and behavioral success. 180 hours in the clinical setting, focusing 8 weeks in the area EI or CI.
Prerequisite: EDC-423

EDC 474 Secondary Science Methods

3 cr
Supports preservice 5-9 and 7-12th grade science teachers integrating pedagogy and content knowledge to plan, enact, and assess equitable and phenomena-based science instruction that is culturally relevant; responsive to student thinking; and engages students in disciplinary core ideas, science and engineering practices, and crosscutting concepts
Prerequisite: BIO-121, PHY-112 or 121, CHM-115, TEP Approval, must be taken concurrently with EDC-474C

EDC 474C Secondary Science Methods: Clinical Experience

1 cr

Includes at least 30 hours of clinical experience, observation and direct work with students including planning, teaching, and assessment in grades 5-9 and 7-12 science. Pass/Fail Only.

Prerequisite: BIO-121, PHY-112 or PHY-121, CHM-115, TEP

Approval, must be taken concurrently with EDC-474

EDC 476 Secondary Language Arts Methods

3 cr

Pedagogical and content knowledge for teaching secondary language arts to diverse learners in grades 5 through 12. Includes topics and issues in instructional planning, teaching, and assessment.

Emphasizes the importance of building relationships with learners and their communities in ways that encourage teachers to help students see the vast uses and meanings of literacy and the importance of drawing on students' experiences and knowledge in reading and writing instruction and assessment.

Prerequisite: ECL-220, TEP Approval, must be taken concurrently with EDC-476C

EDC 476C Secondary Language Arts Methods: Clinical Experience

1 cr

Includes a minimum of 30 hours of clinical experience, observation, and direct work with students including planning, teaching, and assessment in grades 5-12 language arts. Pass/Fail Only.

Prerequisite: TEP Approval, must be taken concurrently with EDC-476

EDC 477 Secondary Social Studies Methods

3 cr

Pedagogical and content knowledge for teaching social studies to diverse learners in grades 5 through 12. Includes examination of topics and issues related to instructional planning, teaching, and assessment. Emphasizes an interdisciplinary and inquiry-based approach to powerful and authentic social studies teaching and learning that draws on both foundational and methodological considerations.

Prerequisite: GGR-200; HST-100, HST-104, or HST-105; ECN-111 or ECN-112; POL-101 or POL-121, TEP Approval; must be taken concurrently with EDC-477C

EDC 477C Secondary Social Studies Methods: Clinical Experience

1 cr

Includes at least 30 hours of clinical experience, observation, and direct work with students including planning, teaching, and assessment in grades 5-12 social studies. Pass/Fail Only.

Prerequisite: GGR-200; HST-100, HST-104, or HST-105; ECN-111 or ECN-112; POL-101 or POL-121, TEP Approval; must be taken concurrently with EDC-477

EDC 478 Secondary Mathematics Methods

QR

3 cr

Pedagogical and content knowledge for teaching mathematics to diverse learners in grades 5 through 12. Includes building relationships with learners, families, caregivers, and communities to support mathematics thinking and reasoning. A focus on instructional planning, productive dispositions, and use of assessments.

Prerequisite: MTH-121, TEP Approval, must be taken concurrently with EDC-478C

EDC 478C Secondary Math Methods: Clinical Experience

1 cr

Includes at least 30 hours of clinical experience, observation and direct work with students including planning, teaching, and assessment in grades 5-12 mathematics. Pass/Fail Only.

Prerequisite: TEP Approval, must be taken concurrently with EDC-478

EDC 480 Topics in Education

2-3 cr

Survey of a selected topic chosen for study. May be taken more than once for credit.

Prerequisite: Instructor permission

EDC 500 Senior Thesis

2-3 cr

Required for Departmental honors.

Prerequisite: Instructor permission

EDC 501 Teaching Internship 1: General Education

5 cr

With the supervision and support of mentor teachers and clinical instructors, teacher candidates plan and enact authentic teaching experiences, assess student work, use data to plan subsequent lessons, and perform all duties appropriate for a teacher intern in a classroom setting appropriate to a certification level. Leads to full class responsibility. Pass/Fail Only.

Prerequisite: ST approval, all required certification courses, must be taken concurrently with EDC-503

EDC 502 Teaching Internship 2: General Education

5 cr

Continuation of Teaching Internship 1. With the supervision and support of mentor teachers and clinical instructors, teacher candidates plan and enact authentic teaching experiences, assess student work, use data to plan subsequent lessons, and perform all duties appropriate for a teacher intern. Includes a successful period of full class responsibility. Pass/Fail Only.

Prerequisite: EDC-501, must be taken concurrently with EDC-503

EDC 503 Teaching Internship Seminar

3 cr

Application and reflection of core teaching practices, education theories, and professional expectations to support professional growth.

Prerequisite: ST approval, must be taken concurrently with EDC-501 and EDC-502

EDC 505 Special Education Internship I

5 cr

Develop and demonstrate procedures for implementing an Individualized Education Program. Ensure learning for special education students in a pull-out setting and within the general education environment. Six weeks in the clinical setting with a mentor special education teacher. Concurrent to EDC-504. Pass/Fail Only.

Prerequisite: ST approval, all required special education certification courses, must be taken concurrently with EDC-504

EDC 506 Special Education Internship II

5 cr

Deliver one-to-one, small-group, and large-group lessons using evidence-based practices which foster academic, social-emotional, and behavioral success. Six weeks in the clinical setting with a mentor special education teacher. Concurrent to EDC-504 Pass/Fail Only.

Prerequisite: EDC-505, must be taken concurrently with EDC-504

EDC 507 Leadership in Special Education

3 cr

Analyze legal and ethical practices in special education. Focus on collaboration to promote community and enhance the participation of students with disabilities in the general education setting.

Prerequisite: EDC-423; taken concurrent to EDC-508

EDC 508 Mild to Moderate Disabilities Internship

10 cr

Develop and demonstrate procedures for implementing an Individualized Education Program. Ensure learning for special education students in a pull-out setting and within the general education environment. Deliver one-to-one, small-group, and large-group lessons using evidence-based practices which foster academic, social-emotional, and behavioral success. 14 weeks in the clinical setting, focusing 8 weeks in the area of SLD and the final 6 weeks in the area EI or CI (opposite area from Mild to Moderate Clinical IV) with a mentor special education teacher.

Prerequisite: EDC423; taken concurrent to EDC-507

Engineering Science (EGR)

The engineering program (76-86 credits) at Alma College shares a common core, and students must choose a specific concentration that builds on that foundation, as detailed below.

Engineering Core (51-53 credits)

1. EGR-135 and EGR-250;
2. CSC-119 and CSC-121;
3. PHY-121, 122, 212, and 221;
4. EGR-385 (2 to 4 credits): At least 200 hours of service learning, research, or internship in engineering or a related area.
5. EGR-430 and EGR-431 Capstone Project;
6. MTH-116, 121, and 122;
7. CHM-115 or BIO-121 or another natural science course approved by the EGR department.

Select One of the following:

Computer Concentration (32 credits)

1. CSC-230, 240, 310, 345, and 420;
2. EGR-260, 350, and 450;
3. MTH-120.

Electronics Concentration (32-33 credits)

1. EGR-255, 260, 350, 450, and 460;
2. PHY-321;
3. One elective engineering course at the 300-level or above;
4. MTH-210 and MTH-211.

General Concentration (25-31 credits)

1. CSC-240, 310, or 345;
2. EGR-255, 260, 350, or 460;
3. One 300-level physics (PHY) course;
4. Four courses (at least two taken at the 200-upper level or higher), in EGR, CSC, or a natural science discipline other than Mathematics (MTH);
5. MTH-210 or 120.

Program Considerations:

- Students in dual-degree engineering programs may need to complete ECN-111 or 112: check the detailed requirements for individual programs. MTH-310 is highly recommended.
- Due to the restrictions on double-counting of credits, double majors between engineering and PHY, CSC, or MTH are usually impractical; minors in those fields may be possible but challenging.

Departmental Honors in Engineering

Completion of all requirements for the major, at least a 3.5 GPA in the major, and completion of a paper and oral presentation of honors quality (whose topic could be based on the capstone project (EGR-430).

Note on ABET accreditation:

The Engineering major has been designed to meet the expectations for ABET accreditation but does not currently have that designation. The Engineering Science major is not designed to meet ABET accreditation standards. Students who intend to continue their careers as professional engineers, who plan to take the Fundamentals of Engineering Examination, or who plan to continue their education with an MSc or MSE may require additional work and/or professional experience to qualify.

EGR 135 Intro to Engineering

NS2

3 cr

Introduction to Engineering is a project-based course designed to introduce students to the foundational ideas and practices of modern engineering. Through hands-on activities and open-ended design projects, students explore three major engineering disciplines—mechanical, electrical, and computer engineering—and examine how these fields intersect in real-world systems and products. Course fee.

EGR 140 Machine Shop

NS2

2 cr

Introduction to machine shop tools, techniques, and safety. Student projects may include experimental apparatus, artistic work, or other items of interest. Course fee.

EGR 250 Electric Circuits

NS2

3 cr

Study of theory and applications of analog electronics. Includes DC and AC circuit theory, basic network analysis, filter responses, semiconductor devices, power supplies, amplifiers, and introduction to microcontrollers. Laboratory.

Prerequisite: PHY-122

EGR 250L Electric Circuits Laboratory

1 cr

Laboratory component required for noted course.

EGR 255 Electric Circuits II

3 cr

Continuation of EGR-250 with emphasis on alternating current (AC) circuits. Students will analyze circuits using concepts including phasors, sinusoidal steady-state analysis, AC power, RMS values, three-phase systems, and frequency response. Laboratory. Course fee.

Prerequisite: EGR-250

EGR 255L Electric Circuits II Laboratory

1 cr

Laboratory component required for noted course.

EGR 260 Digital Electronic

3 cr

This course covers the analysis and design of digital electronic circuits and systems, including combinational and sequential logic, timing and synchronization, and the electronic implementation of digital logic using integrated circuits. Emphasis is placed on practical design considerations such as speed, power consumption, and reliability, with laboratory experiences reinforcing theory through simulation, prototyping, and testing. Laboratory. Course fee.

Prerequisite: EGR-250

EGR 260L Digital Electronic Laboratory

1 cr

Laboratory component required for noted course.

EGR 330 Engineering Workshop

NS2 WI

3 cr

Students will develop an understanding of the relationship between engineering, science, and culture. They will work on cross-disciplinary projects, creating interactive physical objects by combining mechanical, electronic, and computing systems. In the process, they will use the models and knowledge acquired from their major to understand our relationship with technology and society. Laboratory.

Prerequisite: EGR-130 and either PHY-212 or EGR-250

EGR 330L Engineering Workshop Laboratory

1 cr

Laboratory component required for noted course.

EGR 350 Solid State Devices

3 cr

Students will investigate semiconductor devices and fabrication. They will study electrical transport in semiconductors and electron-hole pair recombination, and they will apply these concepts to the theory and operation of diodes and transistors (both field-effect and bipolar junction types). Laboratory.

Prerequisite: EGR-250, MTH-122; also, PHY-221 recommended

EGR 350L Solid State Devices Laboratory

1 cr

Laboratory component required for noted course.

EGR 385 Internship/Service Learning

NS2

1-3 cr

Service learning, research, or internship in engineering or related area. A capstone project cannot count towards this course.

Prerequisite: EGR-135 and either PHY-212 or EGR-250

EGR 430 Capstone I

NS2 WI

3 cr

Students will plan and develop a capstone project that applies their specialized skills in engineering and science to a complex problem. The project will demonstrate expertise in engineering practices and fundamentals. Course fee.

Prerequisite: EGR-330

EGR 431 Capstone II

3 cr

This course continues the two-semester capstone sequence, focusing on the implementation, testing, and refinement of engineering projects. Students complete prototypes or systems developed in Capstone Project I, evaluate performance against design requirements, and iterate solutions as needed. Emphasis is placed on problem-solving, integration of knowledge from the electronics concentration, teamwork, professional communication, and documentation. The course culminates in a final technical report and oral presentation demonstrating the project's design, testing, and results. Course fee.

Prerequisite: EGR-430

EGR 450 Embedded Systems

3 cr

Students will develop low-power systems with hardware, software, sensors, actuators, and controllers. Students may explore applications in robotics, medical devices, automotive industry, instrumentation, and communications, among others. Laboratory. Course fee.

Prerequisite: EGR-350

EGR 450L Embedded Systems Laboratory

1 cr

Laboratory component required for noted course.

EGR 460 Systems and Signals

3 cr

Students will learn the foundations of Laplace transforms, Fourier series, and Fourier transforms, including the implications of poles and zeros, convolution, impulse and step responses, and frequency responses. They will apply these tools to electric signal analysis and the analysis of continuous and discrete systems. Students will explore applications from engineering and physics, including feedback and control, communications, and signal processing.

Prerequisite: EGR-350

English, Communication and Language (ECL)

English Major Requirements

Thirty credits, which must include:

1. Core: 12 credits: ECL-120, 220, 320, and 420;
2. Context: 6 credits to be selected from the following courses. At least one course must be 200+ level.
 - ECL-113, 121, 122, 123, 131, 132, 133, 190, 201, 202, 203, 214, 215, 290-295, 303.
3. Electives: 9 credits to be selected from the following list: Note: at least one course must be 300+ level.
 - ECL-227, 231, 241, 242, 251, 253, 261, 327, 341, 343, 351, 353.
4. Practicum or Internship: 3 credits in ECL 385 or an applied learning experience approved by the ECL department.

Major Considerations:

1. Students may count up to 6 credits of Explore and Theme ECL classes toward the major.
2. Up to 3 credits of ECL-385 may count toward the major.
3. Independent studies and senior theses are supplements and extensions of the major; therefore are not counted as electives.

English Minor Requirements

Eighteen credits, which must include:

1. Core: 12 credits of ECL-120, 220, 320, and 420.
2. Electives: 6 additional credits selected from ECL-227, 231, 241, 242, 251, 253, 261, 327, 341, 342, 343, 351, 353.

Note: ECL-100, 101 and 110 do not count in the English major or minor. An independent study course may not count toward the English major or minor unless it is approved as a substitute by the English Department.

Writing Minor Requirements

Eighteen credits, which must include:

1. ECL-190, 201, 202, 203, 220, 270, 271, 290-295.

Note: Students pursuing the writing minor may consider working with the ECL department to approve substitutions for the writing minor with courses in ECL, NMS, or BUS for one of their required writing courses. A current list of approved substitutes is maintained by the English department.

English Language Arts (5-12) Teaching Major

Thirty-one credits, which must include:

1. 12 credits of ECL-190, 220, 320, and 420;
2. 3 credits of digital/multimodal composition selected from ECL-202 or 270;
3. 12 credits of electives, which must include:
 - a. 6 credits of literature at the 300-level (ECL-341, 343, 351, or 353)
 - b. 3 credits emphasizing multicultural/transnational perspectives selected from ECL-240 or 241;
 - c. 3 credits emphasizing historical/intertextual perspectives selected from ECL-250-269
4. EDC-476 and 476C.

Middle Grades (5-9) English Teaching Minor

Eighteen credits, which must include:

1. ECL-190 and 220;
2. 3 credits emphasizing multicultural/transnational perspectives selected from ECL-240 or 241;
3. 3 credits of digital/multimodal composition selected from ECL-202 or 270;
4. 3 credits of electives in literature from ECL-241, 251, 253, or 261;
5. EDC-476 and 476C.

Communication Major Requirements

Thirty Credits, which must include:

1. Core: 12 credits: ECL-120, 220, 320, and 420;
2. Context: 6 credits to be selected from the following courses.
At least one course must be 200+ level.
 - a. ECL-113, 121, 122, 123, 131, 132, 133, 190, 201, 202, 203, 214, 215, 290-295, 303.
3. Electives: 9 credits to be selected from your chosen Major.
At least one course must be 300+ level.
 - a. ECL-221, 227, 231, 240, 242, 250, 252, 254, 270, 271, 327, 340, 350, 371.
4. Practicum or Internship: 3 credits in ECL-385 or an *applied learning experience* approved by the department.

Communication Minor

Eighteen credits, which must include:

1. Core: 12 credits of ECL-120, 220, 320, and 420;
2. Electives: 6 additional credits selected from ECL-221, 227, 231, 240, 242, 250, 252, 254, 270, 271, 327, 340, 350, 371.

Program Considerations

- Prospective majors should plan to take ECL-120 in the first year, ECL-220 in the sophomore year, ECL-320 in the junior year, and ECL-420 in the senior year. Note: One foreign language course at or above the 112 level is required for the English major.
- ECL-100, 101 and 110 do not count toward the English major or minor.
- Students considering graduate school are urged to complete more than the required number of 300-level literature classes as well as ECL-500 Senior Thesis. Students interested in pursuing a Ph.D. in literature are strongly recommended to take additional modern language courses.
- English majors may also elect a writing minor. Up to eight credits may count toward both the major and minor requirements

ECL 101 Writing with Purpose

3 cr

Develop rhetorical awareness and college-level writing skills, including critical use of sources. Carefully consider diverse viewpoints and skillfully articulate one's own ideas in conversation with others. Explore purposes for writing and refine the writing process. Read and compose evidence-based arguments on civic and academic issues that matter.

ECL 111 Foundations of Language and Literacy

3 cr

Students will explore issues of literacy and comprehension in everyday life by applying principles of language and linguistics, including insights drawn from phonetics, phonology, morphology, syntax, semantics, and pragmatics. National and global trends in literacy will provide further context for these studies.

ECL 113 Group and Team Communication

3 cr

Understand, apply, and embody principles of effective group and team communication. Apply the principles of effective team communication to both teams observed in organizations and to their own teams through ethnographic research methods.

ECL 120 Fundamentals of Speech Communication

AH

3 cr

Explore foundational principles of oral communication in public contexts. Develop awareness of how invention, arrangement, style, and audience shape effective arguments. Compose and deliver research-based messages and presentations that inform, persuade, and engage diverse publics.

ECL 121 Tricksters and Troublemakers

AH EXP4

3 cr

In literature and myth, tricksters are powerful figures; they break rules and create them, crossing lines between sacred and profane, creation and destruction, human and animal, and male and female. At the edges of human cultures, trickster is always there. But because of the ways they break rules, tricksters-and other types of troublemakers-also help us understand culturally specific forms of social power, subversion, and resistance. Through explorations of tricksters and troublemakers in the Western, African American, and Native American literary traditions, this class explores questions about the revolutionary power of words and the subversive power of laughter.

ECL 122 Bad Babes, Mad Men: Gender & Literature

AH EXP4

3 cr

Critical thinking, reading, and writing through an examination of literary texts and sociocultural constructions of gender. Examines a range of short literary pieces to discuss how power and gender intersect (with age, race, class, ethnicity, ability, age, sexual orientation and more) to shape authorship, representation, and reception in literary studies.

ECL 123 Detective Fiction and CSI

AH EXP4

3 cr

Study the written stories and film adaptations of late British Victorian Sherlock Holmes stories in connections to the development of Detective cultural heroism and forensic science. Apply both analytical and creative approaches in examining narrative crafting and in designing crime scene investigation ("CSI").

ECL 124 Developing Leaders

3 cr

Explore the foundations of leadership through the lens of communication, rhetoric, and storytelling. Study how language, message design, and interpersonal dynamics influence leadership across professional, civic, and creative contexts. Develop skills in active listening, collaboration, and ethical persuasion while examining diverse models of leadership and their cultural dimensions. Practice crafting messages, presentations, and reflective writing that demonstrate clarity, confidence, and a capacity to inspire others.

ECL 131 Tall Tales and Short Stories

AH EXP1

3 cr

This class explores the art and craft of the short story using a blend of analytical and creative approaches to understanding the nature of narrative. Through reading a diverse range of genres, from folk tales to metafiction, from realism to speculative fiction, we will explore how writers construct narratives and how those choices shape interpretation. Through a range of creative exercises, we will explore what it means to imagine and write our own fictional worlds.

ECL 132 Creating Worlds: The Art of Drama

AH EXP1

3 cr

This course promotes an appreciation of the literature produced for the stage. It pays particular attention to the ways that drama simultaneously reflects and reshapes the traditions it inherits and the concerns of its own time. Students will read plays from a wide range of periods and cultures and will attend multiple live performances. Finally, working in small groups, students will write and stage a brief drama that embodies their own reflections on current events.

ECL 133 Fairy Tales

AH EXP1

3 cr

Explore the art-making of fairy tales from diverse cultures in thematic "threads" starting from the 14th-century, applying both analytical and creative approaches. Analyze not only the narrative crafting of the tales, but also the authorial and socio-cultural factors that influence designs and messages. Connect analyzing with story creating exercises to see how imagination can break or work with literary conventions and social doctrines

ECL 180 Studies in Communication and Language

AH 3 cr
Studies in Communication and Language

ECL 190 Creative Writing

AH EXP1 3 cr
Introduce the creative writing process through an exploration of multiple genres. Foster creative experimentation, radical wordplay, observation, reflection, and an understanding of the conventions and creative possibilities of different genres, including poetry, fiction, and creative non-fiction. No prior creative writing experience is required.

ECL 201 Advanced Rhetoric

AH 3 cr
Exploration of how ancient rhetorical principles (such as invention, arrangement, and style) can help us to understand and to craft effective arguments. Emphasis on the development of rhetorical awareness and research-based writing.
Prerequisite: ECL-101 or writing proficiency

ECL 202 Digital Rhetoric & Influence

AH GCA THM3 3 cr
Explore how digital writing and online media impact contemporary life. Develop an understanding of rhetorical choices in digital texts and the traditional and emerging conventions and communities that shape those choices. Compose in varied digital contexts and examine scholarly approaches for thinking critically about online and digital media.

Prerequisite: ECL-101 or writing proficiency

ECL 203 Professional and Technical Communication

AH WI 3 cr
Introduction to the rhetorical and production practices central to various professional writing contexts. These include corporate, educational, and technical settings. This course is open to students from any major interested in a practical understanding of writing in professional and technical environments.

Prerequisite: ECL-101 or writing proficiency

ECL 211 Reading, Writing, and Language

AH 3 cr
Students will explore the interaction of literacy development and language comprehension. Applying principles drawn from fields like morphology, syntax, semantics, and pragmatics, they will examine the stages of literacy development in areas like phonemic awareness, print concepts, phonics, vocabulary, and fluency. They will also examine ethical arguments about assisting others to read and write.

Prerequisite: ECL-111

ECL 212 Diversity and Culture in Literacy

AH 3 cr
Students will examine the ways that peoples' cultural, religious, family, and intellectual experiences shape their literacy. Paying particular attention to the assets available to linguistically and dialectically diverse groups, students will explore how the process of oral language acquisition provides a foundation for ongoing literacy development, and how issues like representation, biases, and stereotypes can impact this development.

Prerequisite: ECL-111

ECL 214 Interpersonal Communication

AH 3 cr
Examination of messages, roles, rules and strategies through which interpersonal relationships are initiated, maintained and changed. Emphasis on analysis of interaction and communication processes in a variety of interpersonal contexts.

ECL 215 Voice, Diction, and Expression

AH 3 cr
Introduces theory and practice in the fundamental techniques of developing a clear, resonant, and expressive speaking voice. Emphasizes breath control, articulation, projection, and vocal variety as tools for effective oral communication. Students engage in exercises to strengthen vocal presence and interpretive skill through readings, performances, and presentations. Especially relevant for students interested in theatre, broadcasting, education, and other fields requiring confident and dynamic vocal expression.

ECL 220 Foundations of Literary Argument

AH WI 3 cr
Develop the reading, writing, discussion, and research skills foundational to the advanced study of literature. Cultivate the critical and creative modes of thinking used in analyzing literary, cultural, historical, and critical source material and in writing literary arguments. Engage in a recursive writing process that includes prewriting, planning, drafting, revising, giving and receiving feedback, editing, and sharing writing with others. Develop information literacy skills in composing a research-based argument that requires increasingly independent levels of textual research.

ECL 221 Sports Communication

AH THM2 THM5 3 cr
Explores the function of sports communication and its impact on players, organizations, fans and professionals. Issues examined include decision making, crisis communication, gender dynamics, community relations and social media presence.

ECL 227 Argument, Public Advocacy, and Social Change

AH 3 cr
Investigates the nature and practice of argument in a democratic society. Focuses on speeches, debates, conversations, and other contexts of public argument. Emphasis on the analysis of evidence, reasoning, assumptions, and values in current policy debates.

ECL 231 Film Appreciation and Understanding

AH 3 cr
Explore film as a powerful medium of storytelling, art, and cultural expression. Develop skills in visual literacy by analyzing cinematic form, style, genre, and historical context. Engage and write critically about how films create meaning, reflect social values, and shape audiences across time and culture.

ECL 240 Intercultural Communication

AH THM2 3 cr
Study of interdependent relationship between communication and culture. Examines conceptual and experiential problems of communication across cultural boundaries. Focuses on perceiving, interpreting, and evaluating different cultural values, world views and patterns of communication. Course fee.

ECL 241 Perspectives in World Literature

AH GCA THM1 THM2 3 cr
A study of Literature from a global perspective. The course will study universal themes such as "family," "love," and "identity" using classics of world literature from Homer to Ngugi Wa Thiong'o (in English translation where necessary.)
Prerequisite: ECL-101, ECL-201, or ECL-202

ECL 242 Fan Cultures

AH 3 cr
Examine the communities, practices, and productions of contemporary media fandoms across literature, film, television, music, and sports. Study how fans interpret, transform, and circulate texts through conventions, online spaces, and creative works. Explore fan-created paratexts and their cultural, social, and commercial impact while engaging with scholarship that situates fandom as a vital site of modern cultural expression and participation.
Prerequisite: ECL-101

ECL 250 Themes in Communication

AH 3 cr
Explore how societies communicate about—and through—a central theme such as justice, technology, love, or identity. Study historical and contemporary texts, media, and cultural artifacts to understand how discourse surrounding the theme reflects changing values, beliefs, and modes of expression. Engage critically with how meaning and conversation evolve across time and context.
Prerequisite: ECL-101

ECL 251 Genealogy of a Genre

AH 3 cr
Trace the evolution of a literary or media genre from its origins to its contemporary forms. Examine how conventions, audiences, and cultural contexts shape and reshape the genre across time. Analyze key works that illustrate the genre's enduring appeal and its reinvention in modern storytelling, performance, and media.
Prerequisite: ECL-101

ECL 252 Environmental Communication

AH THM6 3 cr
Examines issues and controversies in conservation, ecology and environmentalism from a communication perspective. Emphasizes critical analysis of the role of mass media and public discourse in the definition, deliberation and resolution of environmental issues.

ECL 253 Environmental Literature

AH THM1 THM6 3 cr
Students will study the human relationship to nature through literature in various genres, including natural history, fiction, film, memoir, and poetry. The course will emphasize the examination of historical and current.
Prerequisite: ECL-101 or writing proficiency

ECL 254 Health Communication

AH THM5 3 cr
Examines communication practices in health care relationships and organizations. Topics include effective provider-patient interaction, communication relationships in health organizations, rhetorical and media strategies for managing health issues, and the uses of new communication technologies to promote health and manage health information.

ECL 261 Intertextual Literature

AH 3 cr
Explore how literary texts converse with, echo, and transform one another across time, genre, and culture. Study adaptation, influence, and allusion to understand how writers build upon and challenge earlier works. Examine relationships among texts, authors, and audiences through close reading, comparative analysis, and creative or critical projects that reveal the layered nature of literary meaning.
Prerequisite: ECL-101

ECL 270 Writing for the Media

AH WI 3 cr
Gain practical writing experience developing the journalistic skills required for different mass media forms. Apply those journalistic skills in a digital environment including, but not limited to, social media and online news writing.
Prerequisite: ECL-101 or writing proficiency

ECL 271 Public Relations

AH 3 cr
Introduction to the principles of public relations and strategic corporate communication practices. Topics include message design, campaign planning, audience analysis, issue management, and case studies of ethical issues.

ECL 290 Poetry Workshop

AH THM1 THM7 3 cr
Exploration of poetic form and language through writing and workshoping student work, as well as through critiquing the work of published poets. This course focuses on cultivating an inventive, playful relationship to language as well as foundational habits necessary for the creation of art.

ECL 291 Fiction Workshop

AH THM1 THM7 3 cr
Exploration of the craft of writing short fiction through writing and workshoping student work, as well as through critiquing the work of published authors. This course focuses on providing a foundational understanding of narrative forms and styles, as well as introducing students to the habits of art necessary for sustained creative writing.

ECL 292 Playwriting

AH 3 cr
Exploration of the craft of writing short plays through writing and workshoping student work, as well as through critiquing the work of published authors. This class is designed for writers with experience with theatre, or for theatre students with an interest in writing for the stage.

ECL 293 Creative Nonfiction

AH 3 cr
Exploration of the craft of writing creative nonfiction, including personal essay, memoir, and the meditative essay. Through writing and workshoping of student and professional work, this class introduces students to the observational, reflective, and aesthetic skills necessary to practicing the habit of art.

ECL 294 Screenwriting

AH 3 cr
Exploration of the craft of writing screenplays for film. Through writing and workshoping student and professional work, students will explore techniques for developing characters and scenes, as well as crafting stories that will translate well to the screen.

ECL 295 Grant Writing

AH 3 cr
Introduction to grant writing as a genre of professional writing. This course explores grant writing from both a theoretical and a practical perspective, including the philosophy of philanthropy, the process of identifying needs, developing grant proposals, and identifying funding sources.

ECL 303 Quantitative Writing

AH WI 3 cr
This course helps students develop the understandings and skills necessary to effectively incorporate quantitative evidence into their writing. Readings will include overviews of core concepts related to statistics and risk, including discussions of the benefits and limitations of common analytic approaches. Written exercises, ranging from reading responses to a research-based final paper, will emphasize the analytic and rhetorical skills needed to argue effectively with quantitative data.
Prerequisite: ECL-101 or writing proficiency

ECL 320 Critical Theory

AH 3 cr
Examine the systematic methods scholars use to study communication, language, and text. Explore key theoretical frameworks that guide inquiry into how meaning is created, circulated, and interpreted across contexts. Evaluate existing research and apply methodological and theoretical tools to design original analyses or proposals that contribute to ongoing scholarly conversations in communication and literary studies.
Prerequisite: ECL-220

ECL 327 Persuasion and Propaganda

AH 3 cr
Examines the mediated and rhetorical processes of social influence and the elements of propaganda. Emphasis on analysis of institutional persuasive strategies in film, television, print and oral media.

ECL 340 Gender and Communication

AH 3 cr
Explores the rhetorical construction of gendered identities, focusing on cultural messages about femininity and masculinity in social, political, institutional and relational contexts. Through readings, discussions, films and presentations, the course examines the way gendered identities are created, contested and performed, emphasizing the relevance of this process to our daily lives.

ECL 341 Women's Literature

AH 3 cr
Studies in the literature of women from its beginnings in Julian of Norwich through Bradstreet and Woolf to the present. Includes historically and internationally diverse authors in a variety of genres.

ECL 343 Advanced Perspectives in Literature

GCA THM2 3cr
An advanced study of literary traditions shaped by marginalized and underrepresented cultures across the globe. The course explores how authors draw on cultural memory, storytelling practices, and innovative forms to challenge dominant narratives and articulate diverse experiences of identity, power, and resilience. Readings may include works from African American, Indigenous, Latinx, Asian American, diasporic, postcolonial, and global South writers. Key themes include cultural disruption and continuity, displacement, representation, and the relationship between place, history, and identity. May be taken more than once for credit if topics are different.

ECL 350 Legacies of Communication and Rhetoric

AH 3 cr
An advanced exploration of literary traditions and their continuing influence on contemporary works. Examines how historical contexts, movements, and authors shape evolving conceptions of genre, form, and meaning. Students engage critically with major works and theoretical approaches to trace the transmission, adaptation, and reinvention of literary ideas across time and place. Topics and periods vary by instructor, but emphasis is placed on research, analytical writing, and the interpretive connections between past and present literary work.

Prerequisite: ECL-101

ECL 351 Legacies of Literature

AH 3 cr
An advanced exploration of significant movements, figures, and ideas in the history of communication and rhetorical thought. Topics vary by semester and may include classical rhetoric, media revolutions, political discourse, social movements, or contemporary theories of persuasion and meaning-making. Students will analyze how evolving forms of communication reflect and shape cultural, intellectual, and technological change.

Prerequisite: ECL-101

ECL 353 Examining Authors

AH 3 cr
Advanced study of a major author or group of authors whose works have shaped literary history and discourse. Topics vary by term and may focus on figures such as Shakespeare, Woolf, Baldwin, or other influential voices. Through close reading, critical analysis, and scholarly engagement, students investigate an author's thematic concerns, stylistic innovations, cultural impact, and evolving legacy. Emphasis is placed on understanding how an author's body of work participates in larger literary movements.

Prerequisite: ECL-101

ECL 371 Strategic, Crisis, and Risk Communication

AH 3 cr
Study the principles and practices of effective professional writing in strategic, risk, and crisis communication contexts. Learn how organizations and media craft messages to build trust, manage public perception, and respond to emerging challenges. Research, write, and produce materials for real or simulated clients, developing audience-centered strategies and multimodal messages for print, broadcast, and digital platforms. Build a professional portfolio that demonstrates the ability to communicate clearly, ethically, and persuasively in high-stakes environments.

Prerequisite: ECL-271

ECL 380 Studies in Communication and Language

AH 1-3 cr
English Studies in Communication and English

ECL 382 Off-Campus Studies: American Experience

AH 3 cr
Special emphasis on travel to develop historical and cultural awareness as it adds to the richness of the American literary experience.

ECL 383 Off-Campus Studies: Beyond the American Experience

AH 3 cr
Special emphasis on travel to develop historical and cultural awareness as it adds to the richness of a variety of global literary experiences.

ECL 385 Practicum in Communication & English

3-8 cr
Application of concepts in language and writing through participation in journalistic, public relations and other work settings. Supervision by faculty and sponsoring organization. Includes interpretive journal and summarizing paper.

Prerequisite: Departmental approval

ECL 420 Senior Seminar

AH 3 cr
Integrate and apply the knowledge and skills developed throughout the English and Communication major in a sustained investigation of a specialized topic. Topics vary by semester and may draw on theoretical, creative, or applied approaches to communication, rhetoric, and textual analysis. Students will complete a major project, develop a professional portfolio, and reflect on how their academic experiences prepare them for post-graduate opportunities.

Prerequisite: ECL-320 and Senior Standing

ECL 500 Senior Thesis

AH 1-3 cr
Requires department permission.

Environmental Studies (ENV)

Environmental Studies Major Requirements

Twenty-nine credits, which must include:

1. Core (17 cr): ENV-105, 205, 291, 310, 480 and ECN-350.
2. Electives (12 cr): POL-141, 219, 225, 226/227; PHL-225; ECL-252; NMS-253; ENV-280, 370, 380.

Other Considerations:

- Students are expected to complete an internship, research experience, or independent study appropriate for the student's academic and career goals.
- Recommended courses include: ECN-111 or 112; MTH-116.

Environmental Science Major Requirements

Forty-six credits, which must include:

1. Core (28 cr): ENV-105, 205, 210, 291, 310, 370, 480; BIO-121; CHM-115
2. Electives (18 cr):
 - a. 3 credits from: ENV-360; BIO-319.

- b. 6 credits from: POL-141, 219, 225; PHL-225 or NMS-253; ECN-350; ECL-252.
- c. 9 credits upper-level science or mathematics courses formulated with aid from ENV department.

Program Considerations:

- Students are expected to complete an internship, research experience, or independent study appropriate for the student's academic and career goals.
- Recommended courses may include PHY-112 or 121; MTH-116 or 121
- Environmental Studies students are recommended to conduct research or take a Spring Term experience abroad that utilizes our relationships with various institutions. MTH-116 (Statistics) and/or MTH-121 (Calculus) are strongly advised; MTH-121 is required for most graduate work.

Environmental Studies Minor Requirements

Twenty credits, which must include:

1. Core (14 cr): ENV-105, 205, 291, 310, 480.
2. Electives (6 cr) from the following: ENV-280; POL-141, 225, 219; PHL-225; ECL-252; NMS-253; ECN-350.

ENV 105 Our Environment

NS1 EXP3 3 cr

Examination of humans and their relationship to the natural environment. Explores the current status of environmental problems, controversies and solutions. Laboratory. Course fee.

ENV 105L Our Environment Laboratory

1 cr

Laboratory component required for noted course.

ENV 110 Environmental Geology

NS2 3 cr

Investigation into the causes of geologic hazards such as earthquakes, mass movement, volcanoes and desertification. Includes investigation into geologic processes involved in the formation of energy and material resources, their origin, uniqueness and the impact of their use on the environment. Topics center on the interrelationships among all physical Earth processes. Laboratory.

ENV 110L Environmental Geology Laboratory

1 cr

Laboratory component required for noted course.

ENV 205 Environmental Health

THM5 THM6 3 cr

Exploration of the relationship between the environment and human health. Topics include exposure to pollution, environmental disasters, injuries, and occupational health. The following concepts will be explored: environmental justice, toxicology, public health, and risk assessment.

Prerequisite: Sophomore Standing

ENV 210 Earth and the Environment

NS2 THM6 3 cr

This course incorporates a geoscience approach to environmental issues and problems. Topics include geologic hazards and the internal earth processes that produce them; natural resource formation and exploitation including: soils, water, minerals, fossil fuels and alternative energy. The course also covers the impact climate change has on existing problems such as pollution, waste production and disposal. Environmental regulations and their connection with current and past environmental research at Alma College are covered.

Prerequisite: Any 100-level science course

ENV 280 Topics in Environmental Studies

3 cr

Topics in Environmental Studies are selected by the instructor. Course fee.

ENV 291 Scientific Writing and Methods

2 cr

Examination of the different types of scientific writing, literature, along with practice of effective science communication within multiple formats. Brief coverage of how science writing and communication is different from everyday writing and communication. Skill development in effectively representing and understanding basic statistical analyses, graphs, diagrams and illustrations and their role in effective communication.

Prerequisite: Sophomore Standing

ENV 310 Climate & New Earth Reality

NS2 THM6 3 cr

This course engages students in the science of climate change. Specifically, the course will provide geophysical and geochemical evidence of anthropogenic climate change. Topics include simple atmospheric modeling, the nature of greenhouse gases and their relationship to the earth's energy balance. Also covered are the effects of climate change - past and present- on our biosphere and lithosphere. Attention will be paid to the issue of equity and equality- specifically investigating areas of environmental justice.

Sophomore Standing plus ENV-105 or CHM-115 or BIO-121 or instructor permission OR science explore course.

ENV 360 Watershed Hydrology

3 cr

Investigation of the methods and means describing how surface water and groundwater move in the environment. Topics include the relationship between surface and groundwater, migration of contaminants in fluvial and subsurface systems, and the theoretical and practical application of mathematical expression of water movement. Real-world, local problems serve as a centerpiece for project development.

Prerequisite: ENV-205 and ENV-291, or instructor permission. CHM-115 recommended.

ENV 370 Risk Assessment

WI 3 cr

Systematic approach to the prediction of risks to human health and the environment. Theoretical framework of basic risk assessments is paired with application of real-world examples of known and unknown chemical and biological agents. Students learn to prepare ecological risk assessments.

Prerequisite: Sophomore Standing

ENV 385 Environmental Studies Practicum

1-3 cr

Practicum in the field of Environmental Studies.

Prerequisite: ENV-105, ENV-110 and one additional course from the ENV curriculum

ENV 480 Topics Seminar in Environmental Studies

2 cr

Capstone course in environmental studies. Interdisciplinary approach incorporating scientific knowledge with policy and humanistic issues that are applied to real-life environmental problems.

Prerequisite: Sixteen credits of ENV or Senior Standing or instructor permission.

Exercise and Health Studies (EHS)

Graduation Limitation: Students may only apply up to six credits of (EHS) Exercise and Health Science courses numbered toward their degree.

EHS 165 Group Activity

1 cr

Designed for a group of students to contract for a specific goal-centered learning experience. Goals, activities and means of evaluation must be detailed by the instructor. Pass/Fail Only.

EHS 180/280/380 Topics in EHS

1-3 cr

Activity-based course. Pass/Fail Only. Course fee.

First Year Seminar (FYS)

As part of the Core Curriculum, first-year students entering Alma College and incoming transfer students with fewer than 24 credits awarded are required to complete a First-Year Seminar course.

FYS 101 First Year Seminar

3 cr

First-Year Seminar courses focus on the interdisciplinary nature of important and timely social, scientific, and cultural issues and are designed to provide every new student with high-quality student-faculty interaction that helps students develop skills in critical thinking and communication. Topics vary. Course fee.

Foreign Service (FOR)

Foreign Service may be completed as a self-designed major. Courses are typically drawn from the areas of economics, history, and political science. To declare this major, students should reach out to the Registrar's Office and follow the procedure outlined under the Self-Designed major policy within this catalog.

FOR 385 Foreign Service Practicum

3 cr

Practicum in the field of Foreign Service.

FOR 400 Seminar

3 cr

Integration and application of work taken in various required courses. Problems considered will be determined by the international climate at the time the course is given.

Prerequisite: Instructor Permission

FOR 500 Senior Thesis

3 cr

Individual research culminating in the preparation of a major paper. Work should be initiated during the Fall Term of the senior year.

French (FRN)

To satisfy foreign language proficiency within the Core Curriculum, students must reach the novice high proficiency level. This requires the completion of FRN-111 and FRN-112.

Advanced Credit in a second language may be earned by:

1. Scoring at the 3 level or higher on the Advanced Placement (AP) exam.

2. Successfully completing the International Baccalaureate Program (IB) or the National Foreign Language Examination.

FRN 111 Beginning French I

3 cr

Introduction to French. The primary objective is to help students acquire necessary basic skills: speaking, listening, reading and writing. Secondary objective is to provide insight on French culture and society. Course fee.

FRN 112 Beginning French II

AH

3 cr

Acquire necessary basic skills: speaking, listening, reading and writing. Gain insight on French culture and society. Course fee.

Prerequisite: FRN-111 or instructor permission

FRN 150 Art and History and Culture

AH EXP2

3 cr

This course, taught in French at a novice-mid/high level, will use short novels, films and articles, related to French art and history, in addition to other cultural components from the Francophone world to continue developing language skills and cultural competencies. Course fee.

Prerequisites: Students must have novice-mid French proficiency background to be successful. Appropriate for students with 2 years of high school French or completion of 3 credits at the 111 level

FRN 153 Food, Health and Culture

AH EXP4

3 cr

This course, taught in French at a novice-mid/high level, will use short novels, films, documentaries and articles, related to French and Francophone culture, in addition to other reel events from the Francophone world to continue developing language skills and cultural competencies. Course fee.

Prerequisites: Students must have novice-mid French proficiency background to be successful. Appropriate for students with 2 years of high school French or completion of 3 credits at the 111 level.

Geography (GGR)

GGR 101 Human and Environmental Relationships

2 cr

Introduction and overview of the discipline of geography. Central themes include human environment interaction, spatial analysis, pattern and process. Study of human and natural components of the earth's surface with a focus on relationships between humans and their environments.

GGR 102 World and Regional Cultures

2 cr

Study of various cultural attributes with a focus on the relationships between humans and their environments. Topics examined within a spatial framework that includes population, ecology, religion, politics, economics, agriculture, resources, industry, urbanization, trade, energy use and development.

Prerequisite: GGR-101

GGR 200 Principles of Geography

GCA THM2 THM6

3 cr

Exploration of the areas of geographic reasoning and inquiry, including geographic representations such as maps and geospatial technologies, as well as physical characteristics and human systems that define and shape places, regions, and the humans who live there. Develop critical and analytical skills useful in understanding and explaining patterns of human distribution and behavior as they are influenced by, and have influence on, the physical world with consideration of local, national, and global contexts.

GGR 201 Contemporary World Geography

3 cr

Focus on the relationship between the elements of physical geography and human activity both spatially and through time. Develop critical and analytical skills useful in understanding and explaining the spatial

patterns of human distribution and behavior as they are influenced by and have influence on the physical world. Learn how to understand and interpret patterns of human action, belief systems, institutional structures, and socio-economic practices, and how they impact the environment.

Geology (GEO)

GEO 101 Physical Geology

NS2 EXP3 3 cr
Overview of physical Earth processes including rock and mineral formation, weathering and erosion, volcanism, seismicity and glaciation. Topics focus on the central theme of plate tectonics. Also included are tectonic mechanisms responsible for structural change and landforms. Laboratory. Course fee.
Prerequisite: MTH-100 or Placement

GEO 101L Physical Geology Laboratory

1 cr
Laboratory component required for noted course.

GEO 112 Introduction to Michigan Basin Geology

NS2 3 cr
Field-oriented course focusing on the unique geology of the Michigan Basin. Emphasis on tectonic and climatic changes in Michigan's geologic past and the rock records and fossil assemblage representing these changes. Topics include formation of the Michigan Basin's unique structure. Field trips include Wallace limestone quarry, evaporite deposits in a Grand Rapids gypsum mine, sandstone ledges at Grand Ledge, Silver Lake sand dunes and regional Pleistocene glacial features. Laboratory. Course fee.
Prerequisite: MTH-100 or Placement

GEO 112L Introduction to Michigan Basin Geology Laboratory

1 cr
Laboratory component required for noted course.

GEO 113 Dynamic Earth

NS2 EXP3 3 cr
Study of the earth's dynamic systems as explained by plate tectonics theory. Examination of rock and fossil records. Laboratory. Course fee.
Prerequisite: MTH-100

GEO 113L Dynamic Earth Laboratory

1 cr
Laboratory component required for noted course.

Health Studies (HSS)

HSS 180/280/380 Topics in HSS

3 cr
Exploration of special topics in health studies. Topics will vary and be selected by the instructor. Repeatable for credit.

HSS 385 Health Studies Practicum

3 cr
Observation of communication and career opportunities in a health care setting. One example of a practicum is a hospital rotation. Written work is required. Pass/Fail Only. Course fee.

History (HST)

The study of history provides a historical perspective which contributes to an understanding of the economic (E), social (S), political (P), intellectual (I) and technological (T) factors which affect human behavior as well as the historical interpretation (H) which explains that behavior. Students may identify these central course themes by noting the explanatory caption, e.g. (ESPI). All lower-level courses focus on the principal economic, social, political and intellectual problems in particular historical eras. Similarly, courses which emphasize a multinational or global perspective are noted by the caption (GP).

History Major Requirements

Twenty-seven credits, which must include:

1. One 300-level United States history course from: HST-323, 325, 326, 327, 328, 341 or another course pre-approved by the department.
2. One 300-level European history course from: HST-331, 333, 336 or another course pre-approved by the department.
3. One 300-level non-Western history course from: HST-352, 353, or another course pre-approved by the Department.
4. One 400-level seminar (not an independent study).
5. 15 additional credits in HST, not already taken, to reach twenty-seven total credits in the major.

Departmental Honors in History

Candidates must have a minimum 3.3 overall GPA and 3.5 in the History Major, complete a one-credit advanced bibliography course, submit an honors thesis, and where possible present the thesis in an external forum.

History Minor Requirements

Eighteen credits, which must include:

1. One three-credit American history course at any level.
2. One three-credit European history course at any level.
3. One three-credit non-Western history course at any level.
4. Six credits from 300 or 400-level. A 400-level seminar is recommended as one of these.
5. All 18 credits required for the minor must be taken for a letter grade. History courses taken beyond the 18 credits may be taken for Pass/Fail credit.

Social Studies History Teaching Major Requirements:

Twenty-seven credits, which must include:

1. One 300-level United States history course from: HST-323, 325, 326, 327, 328, 341 or another course pre-approved by the department.
2. One 300-level European history course from: HST-331, 333, 336 or another course pre-approved by the department.
3. One 300-level non-Western history course from: HST-352, 353, or another course pre-approved by the Department.
4. One 400-level seminar (not an independent study).
5. All 27 credits that count toward the major must be taken for a letter grade. History courses may be taken for S/F credit but only above and beyond the 36 credits taken for letter grade for the major.
6. Honors candidates must have a minimum 3.3 overall GPA and 3.5 in the History Department, complete a one-credit advanced bibliography course, submit an honors thesis, and where possible present the thesis in an external forum.
7. Successful completion of the Secondary Education Major.
8. Successful completion of the Social Studies Teaching Major (5-12).
9. A grade point average of at least 2.5 is required in the Social Studies: History Teaching Major.

Additional Notes:

100 and 200-level courses are recommended for first-year students and sophomores. HST-300 and above are recommended for sophomores, juniors, and seniors; first-year students admitted only with instructor permission.

HST 100 World History Survey I

SO EXP4 3 cr
Introductory overview of ancient world history from Paleolithic times until the sixteenth century, emphasizing how early civilizations developed and their relationships with each other. Goals include familiarizing students with the major (shared and unique) characteristics of early societies, highlighting the continuity and change as societies developed around the globe. (ESPITH/GP)

HST 101 World History Survey II

SO EXP2 3 cr
Introductory overview of modern world history since the 16th century, emphasizing developments within Europe and interaction with the rest of the world. Focuses on topics such as the origins of European expansion in the first "global age," rise of absolutism, Scientific Revolution and Enlightenment, age of revolution and industrialization, modern imperialism, origins and impact of the World Wars, and the Cold War and its aftermath. (ESPITH/GP)

HST 104 The Making of America to 1877

SO EXP4 3 cr
Examines American history from colonial times to Reconstruction; concentration on political, constitutional, social, economic, and intellectual problems. (ESPITH/GP)

HST 105 The American Century: 1877-Present

SO EXP2 3 cr
Political, economic, social, and intellectual issues from Reconstruction to the present. Focuses on 1877-1990. (ESPITH/GP)

HST 107 American Foreign Relations

SO EXP4 3 cr
Introductory survey of the rise of American power on the international stage from the 1890s to the present. Examines the expansion of its economic, political, and cultural influences in the world through trade and wars, and the spread of American values.

HST 121 American Legal History I

SO THM4 3 cr
Introductory survey, 1620-1877. Indigenous and colonial law, crime and punishment, religion and the law, creation of the law of slavery, imperial conflicts and the Revolution, the Constitution, the Marshall and Taney courts, abolition and women's rights, and legal aspects of the Civil War and Reconstruction. (ESPI)

HST 122 American Legal History II

SO THM4 3 cr
Introductory survey, 1877-Present. Labor and industrialization in the law, legal education and philosophies, civil rights, the New Deal and the courts, law and the economy, the growth of government and the expansion of presidential power, terrorism, and the law. (ESPI)

HST 125 Famous Trials in American History

SO EXP4 3 cr
Explore some of the most prominent and controversial criminal trials in American history from the 17th century to the present. Analyze how law and justice have been shaped by political, economic, and social factors. Learn how legal contests reveal conflicts over issues central to American identity and history: immigration and assimilation; religion and politics; civil liberties and security; race and justice.

HST 130 Women in European History

SO 3 cr
Survey of Western European history, focusing on women's (and men's) roles in the family and society from Classical Greece and Rome through the French Revolution, highlighting particular women whose contributions have been celebrated through the ages as well as discussing what kinds of lives most women led. (ESPI/GP)

HST 138 Europe in Upheaval, 1914-45

SO 3 cr
Analysis of causes and course of World War I; Russian Revolution and Stalinism; interwar diplomacy, crisis of democracy, and Great

Depression; Fascism and Nazism; special focus on causes, course, and impact of World War II. (ESPITH/GP)

HST 140 American Women's History

SO EXP4 3 cr
Introductory survey and examination of problems and issues in American women's history and American feminism, colonial era to the present. Emphasizes gender, race, and class as categories of historical analysis. (ESPITH)

HST 142 Age of Vikings

EXP4 3 cr
This course explores the world of the early Middle Ages through the eyes of the Norse seafarers popularly known as the Vikings. Focusing on sources from between 750 and 1100 CE, topics of study include: Norse religion, society, technology, literature, politics, and how Viking travelers helped to build a wide sphere of intercultural exchange stretching from Greenland to Baghdad.

HST 150 What Do Historians Do?

SO 2 cr
This course is open to all students, regardless of major. Students learn about how the study of history leads to a wide range of career paths, drawing especially upon the experiences of Alma College alumni. Students learn about the development of history as a profession and how various historical figures found their vocations. They reflect on the skills fostered by the study of history and consider how to market those skills effectively in a job search. Students also search for job advertisements and produce key job search materials (e.g., cover letter, resume).

HST 152 Modern East Asia

SO EXP2 3 cr
Introductory survey of the modern history and culture of Korea, Japan, and China. Examines the inter-relations of the three countries and their different experiences since the arrival of Western industrial powers in the 19th century. Major topics include imperialism and cultural interactions, science and modern political thoughts, reforms and revolutions, social transformations, and the miracles of economic growth. This new course offers new approaches to the study of regional history by making connections of shared experiences.

HST 180 Topics and Problems in History

SO 2-3 cr
Topical course in history. This course is variable credit.

HST 200 Ancient Near East

SO 3 cr
Ancient history from its beginnings in Mesopotamia until the 4th century B.C. Includes the kingdoms and empires of the Fertile Crescent (Sumerian, Babylon, Assyria, Israel and foundations of Judaism, Phoenicia, etc.), Egypt, Persia, and other Near Eastern societies. (ESPITH/GP)

HST 201 Ancient Greece

SO EXP2 3 cr
An overview of ancient Greece from Minoan through Mycenae, the Dark Age, Archaic and Classical Greece, and the Hellenistic Period. Includes an examination of Greek culture, the Persian and Peloponnesian Wars, Alexander, and his conquests and more. (ESPITH/GP)

HST 202 Ancient Rome

SO 3 cr
History of Rome from its legendary beginnings through the Republic, the Principate, and the Empire. Traces the rise of Christianity, the causes of Roman decline and Rome's legacy. (ESPITH/GP)

HST 203 Medieval World

SO THM1 3 cr
From the 3rd through the 15th centuries. Uniqueness of medieval society and its legacy to the modern world. Origins of the Middle Ages, society and decline of the medieval world. (ESPI/GP)

HST 204 Renaissance Worlds

SO 3 cr
Between about 1300 and 1700, Europe and its wider world witnessed a transformation through revolutions that changed art, economics, politics, religion, science, and more. Beginning with the Italian Renaissance and finishing on the eve of the Enlightenment, this course offers an introduction to what historians now call the early modern period. Readings cover both Europe and its new overseas empires.

HST 206 Approaches to Michigan History

SO THM3 3 cr
An introduction to historical methodologies, focusing on the history of Michigan from the pre-contact period to the present. Native American societies, European contact and first settlements, imperial wars and the American Revolution, territorial period and statehood, economic development and reform movements, Civil War, industrialization and urbanization, immigration, and race relations, the two World Wars and the Great Depression, the civil rights movement, suburbanization and the decline of the auto industry, contemporary Michigan. (ESPITH) Course fee.

HST 209 Selected Problems in Historical Research

SO 2-6 cr
Introduction to archival research. Classification and cataloging; search and retrieval methods in local, state, and federal government archives; periodical literature and research in the social sciences. Problems may be selected. Examples are literature of American history, European studies, Asian studies, Latin American studies, and Mediterranean studies. (ESPIT) This course is variable credit and may have offerings from 2-6 credits.

Prerequisite: Departmental permission

HST 221 English History

SO 3 cr
Survey of English history from the Norman conquest to modern times. The principal emphasis is on political and constitutional issues and problems, but attention is also given to social, economic, legal, and cultural developments. (ESPI/GP)

HST 228 Immigration & Ethnicity in American Hist

SO THM2 3 cr
Examination of the experiences of immigrants and their transformation into ethnic Americans during the 19th and 20th centuries. Discussion of what it means to be American and the diversity of American society in a historical perspective. (ESPI/GP)

HST 230 Europe and the Islamic World

SO WI GCA THM2 3 cr
Since 9/11, the relationship between the Islamic world and the West has become a topic of renewed interest and controversy. From one vantage point, Muslims and Christians have been at odds for centuries, engaged in what some have called a clash of civilizations. But some historians have questioned that interpretation. While Christians and Muslims have experienced much violence and tension, they have also managed to coexist for long periods of time and to engage in fruitful exchanges. This course examines how Christians and Muslims interacted with one another in the pre-Modern Mediterranean World (i.e., pre-1800). (ESPIH/GP)

Prerequisite: Sophomore Standing and one history course (HST)

HST 238 Europe in Upheaval, 1914-45

SO WI THM1 THM4 3 cr
Analysis of causes and course of World War I; Russian Revolution and Stalinism; interwar diplomacy, crisis of democracy, and Great Depression; Fascism and Nazism; special focus on causes, course, and impact of World War II. (ESPITH/GP)

HST 249 Russian Studies

SO 3 cr
Analysis of Russian economic, social, political, and intellectual development from the era of Peter the Great, with particular emphasis on the 19th and 20th centuries; origins of the Russian intelligentsia; Slavophiles and Westernizers; abolition of serfdom; Bolsheviks and the Russian Revolution; and others. (ESPI/GP)

HST 251 Maya, Aztec, and the Inca

SO WI GCA THM2 3 cr
Explores the cultures and societies of the Olmecs, Maya, Aztecs, and Inca from the emergence of agriculture to the arrival of the Spanish. Emphasis is placed on the cultural interconnectivity of pre-colonial indigenous peoples in the western hemisphere and changes to politics, religion, social norms, and daily life over time.

HST 253 Asian Studies: Modern China and Japan

SO 3 cr
Introductory study of the modern history of China and Japan. Examines the dynamic developments of political, social, economic and cultural changes, including relations with the West, from 1800 to the present. (ESPI/GP)

HST 254 Colonial Americas

SO 3 cr
Examines the development of European colonies in the Americas from 1492 to independence, including the comparative interaction of Native American, African and European cultures in the Spanish, Portuguese, French and English colonies. Analysis of the political, economic, social and intellectual changes from the early colonies to independence. (ESPI/GP)

HST 255 Latin America Since 1825

SO 3 cr
Analyzes selected countries. Caudillos and dictators, reform and revolution, neocolonialism and imperialism, economic growth and development. (ESPI/GP)

HST 256 1492 and the Spanish Empire

SO 3 cr
The year 1492 has a mixed legacy. For many, it was a triumph. But it also had a tragic side: the eventual deaths of millions of African slaves and Native Americans. This course explores the aftermath of 1492: the history of Spanish America until the start of the wars of independence in 1810. Political and religious institutions created in the "New World" are examined, and the resulting social and cultural tensions. (ESPI/GP)

HST 260 Introduction to African History

SO 3 cr
Introductory survey of African history, emphasizing the sub-Saharan region. Chief focus is on the pre-colonial peoples and cultures of the region; attention also given to the nature and impact of the trans-Atlantic trade, European colonization, and the struggle for national independence in the 20th century. (ESPIT/GP)

HST 265 Race and Global Apartheid

SO THM1 THM4 3 cr
During the 1960s-1980s, South African apartheid and its racial injustices dominated news in America, and ordinary Americans looked upon apartheid as a global evil which required global activist responses. Today, the word 'apartheid' is used to describe other injustices around the globe, most particularly the Israel-Palestine conflict. In this course, students ask the following questions: What was/is apartheid? Why has anti-apartheid activism been so global? What is the role of race in international human rights?

HST 271 Public Health and Society

SO WI THM5 3 cr
Explore the historical development of public health and social changes since the 19th century, covering major scientific discoveries and new understanding of disease and health, and how public health promotion changed people and society.

HST 277 Am Studies: Civil War and Reconstruction

SO 3 cr
Examines sectional crisis, disunion and reunion from 1845-77. Topics include significance of Civil War era for industrialization; agriculture and urbanization; emancipation of slaves and race relations; development of the Presidency; constitutional issues; and modern warfare. (ESPI)

HST 280 Topics and Problems in History

SO 2-3 cr
Topical course in history. This course is variable credit and may have offerings from 2-3 credits.

HST 323 Creating the Republic, 1763-1815

SO THM1 3 cr
Analysis of selected economic, social, political and intellectual issues, including the coming of the American Revolution; "state-building" during the war for Independence; the "Critical Period," ratifying the Constitution; origins and early development of political parties, ideologies of republicanism and nationalism; diplomatic problems and territorial expansion; minorities in the early republic; and the War of 1812. (ESPI/GP)
Prerequisite: Sophomore Standing, and one history course or instructor permission

HST 325 Reform and Search for Order

SO 3 cr
Urban revolution; middle class reforms; response of industry, labor, and public institutions to the progressive era; World War I; the Jazz Age; the stock market crash of 1929; and the Hoover administration. (ESPITH/GP)
Prerequisite: Sophomore Standing, and one history course or instructor permission

HST 326 The Roosevelt Revolution, 1932-45

SO 3 cr
Analysis of the Great Depression, the New Deal, American isolation in 1930s, and American involvement in World War II. Historical perspectives of the New Society which emerged from the Great Depression and World War II. (ESPITH/GP)
Prerequisite: Sophomore Standing, and one history course (HST)

HST 327 Constitutional History

SO WI THM4 3 cr
Beginning with the debates over the ratification of the Constitution in 1788-89, this remarkable document has been contested, amended, and reinterpreted through many dramatic developments in American history. As a blueprint for a national government, it has shaped government, politics, and society; in turn, it has been influenced by changes in American politics, society, culture, technology, and the economy. The interplay between, on the one hand, the Constitution and constitutional law, and on the other, major historical events and trends, is the focus of this course. (ESPIH)
Prerequisite: Sophomore Standing, and one history course (HST)

HST 328 Cold War America

SO WI THM1 THM4 3 cr
The Cold War dominated America and its rivalry with the Soviet Union in the world during the second half of the twentieth century. This course examines the origins, strategies, policies, and conflicts of the Cold War that shaped American domestic development and its global involvement. (ESPITH/GP)
Prerequisite: Sophomore Standing, and one history course (HST)

HST 331 Heretics, Popes, and Emperors

SO WI THM2 3 cr
Analysis of European political and religious institutions from the fall of the Western Roman Empire to the end of the Protestant Reformation. This course explores the power struggles between European rulers and the papacy, and distinctions between heretics and reformers.
Prerequisite: Sophomore Standing, and one history course or instructor permission

HST 333 European Enlightenment

SO 3 cr
Perhaps the key intellectual movement to signal the dawn of the modern world, the European Enlightenment is known as an "age of reason" that spanned the seventeenth and eighteenth centuries and dismantled religion as the dominant force in European societies. But by no means did the Enlightenment spell the end of belief or superstition. Through sources from the period, we examine the ideas of several

famous individuals, each of whom contributed and reacted to the European Enlightenment. While this course centers on development taking place in Europe, we also will devote some attention to the interaction between Europe and the wider world. (ESPIH/GP)
Prerequisite: Sophomore Standing, and one history course (HST)

HST 334 Law in Premodern Europe

SO WI THM4 3 cr
This course explores the fundamental principles and history of legal cultures across the European continent from the early Roman Empire up to the early modern era. Emphasis will be placed on evaluating scholarly models of disputing, comparing diverse conflict-management practices, and charting the origins of our own legal system today.

HST 336 Rethinking World War II

SO 3 cr
Discussion and analysis of major debates on various facets of World War II, looking at multiple theaters and including consideration of the war on land, at sea, and in the air. Themes in the chosen case studies include planning, technology, strategy and tactics, intelligence, diplomacy, occupation policies, including the Holocaust, and resistance during World War II. The course includes a major research paper, drawing in part on extensive published primary sources and documentary collections in the College library. (ESPITH/GP)
Prerequisite: Sophomore Standing, and one history course HST

HST 341 Presidential Elections

SO 3 cr
Studies the history of presidential elections focusing on the changing role of the media, campaign fundraising, electoral strategies, the role of the media in shaping campaigns, and the impact on public policy. At times offered in national election years, where the election can serve as a laboratory to test theories.

HST 352 China and the West

SO GCA WI THM1 THM2 3 cr
This course examines major interactions of China and the West via exchange of trade and ideas, paying particular attention to cultural perceptions and (mis)understandings. Topics of studies include the ancient Silk Road, Marco Polo and Jesuits as cultural intermediaries, encounter with imperialism, modern thoughts and Chinese transformations, and China's rise as an economic power. (This course satisfies the requirement of Asian history.)
Prerequisite: One history course (HST)

HST 353 China's 20th Century Revolution

SO 3 cr
Examines China's 20th-century revolutionary history, including the Republican Revolution of 1911, the Nationalist Revolution of the 1920s and 1930s, and the Communist Revolution of the 1920s, 1930s and 1940s, culminating with an analysis of the Communist party's revolutionary rule, 1949 to the present. (ESPITH/GP)
Prerequisite: Sophomore Standing, and one history course (HST)

HST 380 Topics and Problems in History

SO 2-3 cr
Advanced level history problem-solving. Topics include United States and China; United States and Japan; American foreign policy and world politics, 1917-73; oral history, World War II; comparative study in 20th century revolutions; the Nazi revolution; Churchill and his times; Constitutional history. This course is variable credit and may have offerings from 2-3 credits.
Prerequisite: Sophomore Standing, and one history course (HST)

HST 385 Internship in History

2-8 cr
Study/work program requiring archival and/or field work in conjunction with archives, research libraries, or private or public agencies. Only eight credits may count toward the degree. This course is variable credit and may have offerings from 4-12 credits.
Prerequisite: Departmental permission

HST 407 Foreign Policy Seminar

SO 3 cr
 Research seminar examining problems and issues in American foreign relations and diplomacy with emphasis on the 20th century. Frequent discussion, limited lecture, term research paper. Fulfills history major seminar requirements. (ESPITH/GP)

Prerequisite:

HST 425 Riot and Rebellion in America

SO 3 cr
 This seminar will examine instances of civil disorder in American history, from the Pueblo Revolt of 1680, to Revolutionary-era mobs, slave revolts, and contemporary protests. Students will consider whether to classify each instance as a riot or a rebellion (and why that matters), and whether violence is a central characteristic of American history or an aberration.

Prerequisite: Departmental permission

HST 433 World War II Seminar

SO 3 cr
 Focuses on the Second World War, primarily but not exclusively the European theater. Introduction to advanced historical research, including developing complex bibliographies, writing a literature review, developing a hypothesis, using different kinds of primary sources, the technicalities of referencing sources, and stylistic issues in writing history. Design a major research project, written in stages, with close feedback and group discussion in weekly meetings. Also, an introduction to important relevant aspects of interpreting the Second World War. (ESPITH/GP)

Prerequisite: Departmental permission

HST 434 Comparative Fascism

SO 3 cr
 Research seminar compares the varieties of fascist and semi-fascist political movements, investigating theories of fascism and a variety of case studies. Special focus on German Nazism and Italian Fascism, using a global perspective- including other European countries, the United States, South Africa, Latin America, and Japan- to enrich comparative analysis. Includes an examination of contemporary far right movements. (ESPITH/GP)

Prerequisite: Instructor permission

HST 480 Topics and Problems in History

SO 2-3 cr
 Senior Honors Seminar. Analysis of business and economic history of East Asian- American relations; comparative revolutions; 20th century technology, geo-politics and global perspective. No more than 12 credits may count toward the degree. Only eight credits may count toward the History Major. This course is variable credit.

HST 500 Senior Thesis

SO 1-3 cr
 This course is variable credit and may have offerings from 1-3 credits.

Prerequisite: Departmental permission

Humanities (HUM)

HUM 110 Fine Arts Education

AH 3 cr
 A study of the knowledge, understanding and application of the content, functions, and achievements of dance, music, theatre, and the visual arts to promote one's ability to create, perform and respond in and through the arts. While the course will be of special interest to Elementary Education majors, it is designed to be accessible to all interested students.

HUM 180 Topics in Humanities

AH 2-10 cr
 Courses in the humanities, often incorporating an interdisciplinary focus from two or more programs, do not fit within current Departmental boundaries. Course content varies and can be repeated for credit unless otherwise indicated.

HUM 385 Humanities Practicum

3 cr
 Requires department permission.

Honors Program (HNR)

Courses with this designation are open to students accepted into the Alma College Honors Program.

The Alma College Honors Program is designed to encourage students to discern and cultivate their interests, passions and abilities; encourage independent research and close relationships with faculty members; promote academic mastery and excellence; welcome challenging conversations; and provide leadership in a community that provides space for everyone to grow and thrive.

Honors Program requirements include:

- Earn a minimum of 10 Honors credits.
 - Minimum of three required core credits: HNR100, 200, and 300.
 - Maximum of six credits from Honors reading groups.
 - Maximum of six credits from independent study, research, and/or internship; this may include work towards Departmental honors and independent studies with the HNR course code.
- Present at least once at Honors Day.
- Maintain a 3.5 GPA.

Honors program requirement for holders of Associate's Degrees:
Program requirements include:

- Earn a minimum of 6 Honors credits.
 - Minimum of two required core credits: HNR200 and 300.
 - Maximum of three credits from Honors reading groups.
 - Maximum of three credits from independent study, research, and/or internship; this may include work towards Departmental honors and independent studies with the HNR course code.
- Present at least once at Honors Day.
- Maintain a 3.5 GPA.

HNR 100 Honors Seminar

1 cr
 Seminar designed to identify individual strengths and foster academic excellence. Exploration of the liberal arts through important texts and concepts selected by the instructor. Assessments test students' oral skills.

Prerequisite: Acceptance into the Honors Program

HNR 150 Honors Reading Group

1 cr
 Seminar discussion of selected readings of various genres guided by the President. May be repeated for credit. Pass/Fail Only.

Prerequisite: Acceptance into the Honors Program

HNR 199/299 Honors Independent Studies

1 cr
 Courses must be created and approved by the Honors Program Director.

Prerequisite: Acceptance into the Honors Program

HNR 200 Honors Seminar

1 cr
 Seminar designed to identify individual strengths and foster academic excellence. Exploration of the liberal arts through important texts and concepts selected by the instructor. Assessments test students' reading skills.

Prerequisite: Acceptance into the Presidential Honors Program

HNR 250 Honors Reading Group

1 cr
 Seminar discussion of selected readings of various genres guided by campus leaders. May be repeated for credit. Pass/Fail Only.

Prerequisite: Acceptance into the Honors Program

HNR 300 Honors Workshop

1 cr

Seminar designed to identify individual strengths and foster academic excellence. Exploration of the liberal arts through important texts and concepts selected by the instructor. Assessments test students' writing skills.

Prerequisite: HNR-200 and Acceptance into the Honors Program

Interdisciplinary Seminar (IDS)

IDS 301 Interdisciplinary Seminar

3 cr

This is a mission-themed, interdisciplinary course that focuses on applying the liberal arts to a complex and meaningful question. Students will learn to think and respond ethically, and in ways that acknowledge and respect diverse perspectives, contexts, and cultures. Each seminar, which is collaboratively designed and taught, also serves as the capstone experience for the Core Curriculum and includes a reflective portfolio assignment. Topics vary. Must be taken at Alma College. Course fee.

Prerequisite: Junior Standing

Integrated Science (ISC)

ISC 101 Integrated Science I

NS2 EXP3

3 cr

Introduction to concepts in biology, chemistry, physics, Earth, and space sciences. Topics include relationships in ecosystems; structure, function, and information processing; inheritance; forces and interactions; waves; weather and climate; processes that shape Earth; and patterns and cycles in space. Laboratory.

ISC 101L Integrated Science I Laboratory

1 cr

Laboratory component required for noted course

ISC 301 Integrated Science II

NS1 THM1 THM3

3 cr

This course is a continuation of Integrated Science I. Topics include matter and energy in ecosystems; interdependent relationships in organisms and ecosystems; growth, development, and reproduction; natural selection; forces and interactions; electromagnetic radiation; energy; chemical reactions; Earth history; weather and climate; human impacts; stars; solar system. Laboratory.

Prerequisite: ISC-101

ISC 301L Integrated Science II Laboratory

1 cr

Laboratory component required for noted course

Kinesiology & Health Sciences (KHS)

Kinesiology & Health Sciences Major Requirements

Thirty-six credits, minimum, which must include:

1. Core (18 credits): KHS-131, 231, 232, 301 and 327

2. Select one concentration:

- **Clinical Exercise Physiology (20 cr):**
 - KHS-233, 328, 402, 418, 419, 420; and 2 elective credits which must be 300-level or higher (not including KHS-385, 480, or 500).
- **Pre-Therapy (18 cr):**
 - KHS-310 or 311; 345 and 444; 401 or 403; and 6 credits from the following: 233, 234, 235, 328, 335. The cognate for this concentration is PHY-112 or 121.
- **Pre-Medicine (18 cr):**
 - KHS-310 or 311; 401 or 402 or 403 or 404; 444; 264 or 331 or 430; and 6 additional credits from the previous options or the following: 170, 265, 328, 341, 418, 419, 420.
- **Public Health (15 cr):**
 - KHS-264, 330, 331, 430; and 3 credits from the following: 170, 265, KHS-310 or 311, and 328.

3. Completion of the HAPS Comprehensive Examination (national, standardized examination) administered by the Department.

4. Completion of 3 credits of KHS Practicum (KHS-385), Senior Seminar (KHS-480), or Senior Thesis (KHS-500).

Note: For some concentrations, First Aid and CPR certification are required by external internship/practicum programs.

Kinesiology & Health Sciences Minor Requirements

Eighteen credits of KHS classes that must include at least 12 credits taken at the upper-level (above 200).

KHS 110 Health Careers

2 cr

Examination of current information and practices relating to human health. Includes discussions, independent research, on-campus presentations by invited professionals, and off-campus visits to observe health practices, services, agencies and businesses. Pass/Fail Only.

KHS 111 First Aid and CPR

2 cr

Introduction to basic first aid and CPR. Satisfactory completion of this course qualifies student for American Red Cross Certificate. Course fee.

KHS 130 Medical Terminology

2 cr

Develop fluency in the language that accurately describes the human body and associated components, conditions, processes, and procedures in a science-based manner. Emphasis is placed on the meaning, pronunciation, spelling, and application of common medical terms and phrases. Designed for students interested in medical and allied health fields.

KHS 131 Foundations in Physiology

NS1

3 cr

This course will introduce students to core concepts underlying human function. At the end of the course students will be able to explain how these fundamental processes are essential to the viability of the human organism. Emphasis will be on general concepts, serving as preparation for the study of human physiology. The class will utilize traditional lectures together with in-class "laboratory" exercises and collaborative exercises solving clinically relevant problem sets.

KHS 141 Introduction to Kinesiology

3 cr

A foundational course in the field of kinesiology, with an emphasis on the principles governing human movement. Topics within the course include an introduction to: (i) areas of study within kinesiology, (ii) mechanical principles of human movement, (iii) principles of motor behavior and motor control, and (iv) motor learning principles. The course will explore theoretical concepts and real-world clinical and sport applications.

KHS 170 Health Equity Across Populations

EXP4

3 cr

Provide an overview of the major health issues and review determinants that influence health outcomes of the different population groups. Special attention will be given to socioeconomic, racial, ethnic, and gender status and their relationships with health disparities and inequities.

KHS 212 Physiology of Aging

NS1

3 cr

Study of the physiological changes accompanying the aging process. Focuses on both the natural aging process and diseases that are a consequence of aging. Emphasis on lifestyle modification and aging.

*Prerequisite: BIO-121***KHS 214 Faith and Physiology**

NS1

3 cr

Critically evaluate the evidence suggesting a link between spirituality and health outcomes. Students are introduced to the scientific method, the current debate on science and religion, as well as basic understandings of the putative physiological basis for the observed connection. Larger questions about mind-body connections are addressed through extensive laboratory experiences. Intended for non-science majors. *Laboratory.*

KHS 214L Faith and Physiology Laboratory

1 cr

Laboratory component required for noted course.

KHS 215 Human Structure and Function

NS1

3 cr

Provides basic understanding of human anatomy and physiology with emphasis on applications to health and medicine. Intended for non-science majors and may not count toward an KHS Major or Minor. Students who have taken KHS-232 or BIO-207 should not take this course. *Laboratory.*

KHS 215L Human Structure and Function Laboratory

1 cr

Laboratory component required for noted course.

KHS 224 Principles of Sports Medicine

NS1

3 cr

An exploration of the key tenets of sports medicine including sub-disciplines of expertise and a study of injury and pathology at the mechanistic, population, and epidemiological levels. Course fee.

KHS 227 Human Physiology

NS1

3 cr

Study of organ system function emphasizing homeostatic control in the face of constant disruption. *Laboratory. Course fee.*

*Prerequisite: BIO-121***KHS 227L Human Physiology Laboratory**

1 cr

Laboratory component required for noted course.

KHS 228 Physical Fitness Assessment

2 cr

Development of hands-on assessment of health- and skill-related fitness components. *Laboratory.*

*Prerequisite: KHS-220***KHS 229 Exercise Rx in Healthy Populations**

2 cr

Development of exercise prescriptions based on client health and fitness goals. *Laboratory.*

*Prerequisite: KHS-228***KHS 230 Biostatistics**

NS3 QR

3 cr

Introduction to statistical methods used in biomedical science and public health research. Focuses on experimental design, descriptive methods, hypothesis tests, analysis of variance, regression, and other selected topics.

*Prerequisite: MTH-110 or higher, or Placement***KHS 231 Anatomy & Physiology I**

NS1 THM5

3 cr

An introduction to the musculoskeletal, nervous and cardiovascular organ systems. Students will learn about the structure, function and integration of the different systems while applying core concepts of physiology. This course is part one of a two semester sequence.

*Laboratory. Course fee.**Prerequisite: KHS-130, KHS-131 or BIO-121***KHS 231L Anatomy & Physiology I Laboratory**

1 cr

Laboratory component required for noted course.

KHS 232 Anatomy & Physiology II

NS1

3 cr

An introduction into the respiratory, immune, gastrointestinal, endocrine and reproductive organ systems. Students will learn about the structure, function and integration of the different systems while applying core concepts of physiology. This course is part two of a two-semester sequence. *Laboratory. Course fee.*

*Prerequisite: KHS-231***KHS 232L Anatomy & Physiology II Laboratory**

1 cr

Laboratory component required for noted course.

KHS 233 Fit & Exercise Prescription

3 cr

Develop hands-on assessment of health- and skill-related fitness components. Learn and perform fundamentals of exercise prescriptions based on client health and fitness goals. *Laboratory.*

*Prerequisite: KHS-231***KHS 233L Fit & Exercise Prescription Laboratory**

1 cr

Laboratory component required for noted course.

KHS 234 Therapeutic Modalities

2 cr

Physiological principles and application of various therapeutic modalities utilized in the treatment of musculoskeletal injuries.

*Prerequisite: KHS-231 or KHS-232***KHS 235 Therapeutic Exercise**

2 cr

Methods and principles utilized in the rehabilitation of injuries of the physically active.

*Prerequisite: KHS-231***KHS 264 Environmental Health**

3 cr

Exploration of the relationship between the environment and human health. Topics include exposure to pollution, environmental disasters, injuries, and occupational health. The following concepts will be explored: environmental justice, toxicology, public health, and risk assessment.

*Prerequisite: Sophomore Standing***KHS 265 Global Health Perspectives**

GCA THM1 THM2 THM5

3 cr

This course provides an overview of the major human health issues among the global community. Topics include health education,

healthcare, infectious disease, nutrition, violence, pollution and other health hazards. Review of case studies and data organization related to health disparities among different countries will be studied.

Prerequisite: Sophomore Standing

KHS 271A School Health and P.E.- Elementary

2 cr

Designed to cover topical health and physical education content required for state teaching certification and methodology for teaching at the elementary level. Fall Only.

Prerequisite: EDC-100, EDC-120, and EDC-160

KHS 271B School Health and P.E.- Secondary

2 cr

Designed to cover topical health and physical education content required for state teaching certification and methodology for teaching at the secondary level.

Prerequisite: EDC-103 and EDC-130.

KHS 280 KHS Seminar

2 cr

Topics in physiology are selected by the instructor. Students expected to give a presentation. Course fee.

KHS 301 Nutrition

NS1 THM5

3 cr

Introduction to human nutrition including identification, function and food sources of required nutrients. Application of principles of normal nutrition to special issues (e.g., physical performance, obesity, pathology.) Course fee.

Prerequisite: KHS-232

KHS 303 Stress Management

2 cr

Investigation of stressors in the work, social and self-environments. The physiology of stress and deep relaxation techniques studied as an introduction to lifestyle redesign.

Prerequisite: Sophomore Standing

KHS 310 Introduction to KHS Research

2 cr

Introduction to the research process. Typically, students make a formal research proposal. Students are encouraged to pursue an individual study of a particular subject in Integrative Physiology.

Prerequisite: Junior Standing

KHS 311 Introduction to Public Health Research

2 cr

This course is designed to provide students with an overview of the research process. Especially designed for research areas in public health, such as behavioral science/health education, biostatistics/epidemiology, and environmental health.

KHS 321 Community Adult Fitness I

NS1

1 cr

Hands-on exercise leadership of community members. Includes skill assessment, exercise prescription, and oversight of training and progress in individual and group fitness settings.

Prerequisite: KHS-228

KHS 322 Community Adult Fitness II

NS1

1 cr

Hands-on exercise leadership of community members. Includes skill assessment, exercise prescription, and oversight of training and progress in individual and group fitness settings.

Prerequisite: KHS-321

KHS 327 Physiology of Exercise

NS1

3 cr

Exploration of the physiological process in relation to exercise in everyday life, and to sports and recreational activities. Laboratory. Course fee.

Prerequisite: KHS-232 or BIO-207

KHS 327L Physiology of Exercise Laboratory

1 cr

Laboratory component required for noted course.

KHS 328 Pathophysiology

NS1

3 cr

Introduction to the pathophysiologic study of disease in humans.

Prerequisite: KHS-232 or BIO-207

KHS 330 Health Data Analysis

QR WI

3 cr

This course serves as an introduction to statistical computing and research data management.

KHS 331 Health Promotion

NS1 THM4 THM5

3 cr

Provides critical information for planning, implementing, and evaluating health promotion programs in the workplace, schools, community or health care setting.

Prerequisite: Junior Standing

KHS 334 Theory and Practice of Individual Sports

3 cr

Analysis of the skills of badminton, tennis and golf, and methods of instruction unique to each sport. Assume basic proficiency in each sport. Course fee.

Prerequisite: Departmental permission

KHS 335 Orthopedic Assessment I

3 cr

An exploration of the cardiovascular & respiratory systems, and their interactions with one another. Laboratory.

Prerequisite: KHS-232

KHS 335L Orthopedic Assessment I Laboratory

1 cr

Laboratory component required for noted course.

KHS 336 Orthopedic Assessment II

3 cr

An advanced exploration of didactic and clinical application into the examination and diagnostic assessment of upper and lower body orthopedic injuries. Laboratory.

Prerequisite: Departmental permission

KHS 336L Orthopedic Assessment II Laboratory

1 cr

Laboratory component required for noted course

KHS 340 Pharmacology

NS1

3 cr

Overview of the major concepts of pharmaceutical sciences. Includes the study of basic pharmacodynamic and pharmacokinetic principles as related to the major classes of drugs used in the clinical setting today.

Prerequisite: KHS-232 or BIO-207

KHS 341 Basic Pharmacology

NS1

3 cr

This course will introduce students to the basic principles underlying drug action. Concepts include basic receptor theory, pharmacokinetics, and the pharmacodynamics of major classes of drugs in use today. Students will apply the principles through analysis of laboratory and clinical testing data as well as case studies. The emphasis will be on general mechanisms of drug action.

Prerequisite: KHS-232 or BIO-207

KHS 342 Sport and Exercise Psychology

3 cr

This course is devoted to assisting students in learning and using theoretical and practical information related to the psychology of sport and physical activity. Effective mental training skills for successful sport and life performance are also discussed.

Prerequisite: Junior Standing

KHS 344 Human Anatomy

NS1 3 cr
In-depth study of human anatomy with laboratory experience. Course fee.
Prerequisite: KHS-232 or BIO-207 may be taken concurrently

KHS 345 Biomechanics

QR 3 cr
Introduction to the mechanical foundations of human movement with emphasis on applications to sports techniques and activities. Quantitative analysis of static equilibrium, linear and angular motion and relevant external forces.
Prerequisite: PHY-112 or PHY-121

KHS 380 Topics in Integrative Phys & Health Sci

1-3 cr
Designed as a variable topic and credit course.

KHS 385 Integrative Phys & Health Sci Practicum

1-3 cr
Designed for off- or on-campus placement combining academic orientation with practical preprofessional experience. Maximum of eight credits.
Prerequisite: Departmental permission

KHS 401 Molecular Aspect of Muscle Physiology

NS1 QR WI 3 cr
Detailed analysis of recent advances in our understanding of muscle function. Includes basic mechanisms of contraction, neuromuscular control and plasticity/adaption of muscle tissue. Important comparisons between the major muscle types are made. Emphasis placed on understanding these concepts at the molecular level and how these mechanisms translate to overall tissue function. Laboratory. Course fee.
Prerequisite: KHS-232 or BIO-207; CHM-115

KHS 401L Molecular Aspect of Muscle Physiology Laboratory

1 cr
Laboratory component required for noted course.

KHS 402 Cardiorespiratory Physio

3 cr
An exploration of the cardiovascular & respiratory systems, and their interactions with one another.
Prerequisite: KHS-232 or BIO-207 and Junior status

KHS 403 Neurophysiology & Motor Control

3 cr
Study of the nervous system's contributions to homeostasis and motor control.
Prerequisite: KHS-232 or BIO-207 and Junior status

KHS 404 Endocrine Physiology

3 cr
Examines the critical role of the endocrine system in human viability.
Prerequisite: KHS-232 or BIO-207 and Junior Standing

KHS 418 EKG Interpretation

1 cr
Assessment and interpretation of the normal and abnormal electrocardiogram. Includes analysis of EKG changes associated with disease states and pharmacological treatments. Laboratory.
Prerequisite: KHS-232 or BIO-207

KHS 418L EKG Interpretation Laboratory

1 cr
Laboratory component required for noted course.

KHS 419 Stress Testing

1 cr
Application and interpretation of functional capacity and diagnostic stress testing. Includes analysis of normal and abnormal EKG and hemodynamic responses to graded exercise testing. Laboratory.
Prerequisite: KHS-418

KHS 419L Stress Testing Laboratory

1 cr
Laboratory component required for noted course.

KHS 420 Exercise Prescription

2 cr
Develop and implement exercise prescription principles for healthy individuals as well as individuals with various diseased states. Design a comprehensive exercise program, including health and fitness screening, goal assessment, and development of an individualized exercise prescription. Laboratory.
Prerequisite: KHS-327 and KHS-419

KHS 420L Exercise Prescription Laboratory

1 cr
Laboratory component required for noted course.

KHS 428 Exercise Testing and Prescription

NS1 3 cr
In-depth study of theoretical bases and applied knowledge required for graded exercise testing and individualized exercise prescription for normal and high-risk populations, with emphasis on cardiac patients. Electrocardiograph techniques and interpretation, pharmacological considerations, test data interpretations and emergency procedures are included. Laboratory. Course fee.
Prerequisite: KHS-327

KHS 428L Exercise Testing and Prescription Laboratory

1 cr
Laboratory component required for noted course.

KHS 430 Epidemiology

NS1 3 cr
Presents concepts, principles and methods generally used in the surveillance and investigation of health-related events.
Prerequisite: BIO-121 and Junior Standing

KHS 444 Advanced Anatomy

NS1 3 cr
An in-depth exploration of human anatomy with an emphasis on cadaver dissection. Application of core concepts from human anatomy and physiology. Hands-on dissection conducted by students in the human cadaver laboratory. A strong focus will be placed on the ethical implications of death and dying helping to cultivate empathy, compassion, and respect for others as future healthcare professionals and citizens of the world. Laboratory. Course fee.
Prerequisite: KHS-232 or BIO-207

KHS 444L Advanced Anatomy Laboratory

1 cr
Laboratory component required for noted course.

KHS 500 Senior Thesis

1-3 cr
Requires department permission.

Library Research (LIB)

LIB 110 Introduction to Library Research

1 cr
Introduces a wide range of research and information literacy skills, including how to effectively choose a research topic, how to best use print and digital sources, and ethical information use. Most appropriate for first- and second-year students.

LIB 310 Research and Technology

2 cr
Introduction to advanced library research using catalogs, databases, and internet sources. Students are encouraged to use mobile devices (e.g., laptops, tablets, smartphones) and to evaluate the usability of these devices. Most appropriate for juniors and seniors.

LIB 385 Library Practicum

1-3 cr

Study-work program in the College Library or another library.

Mathematics (MTH)

Mathematics Major Requirements

Thirty-three total credits, which must include:

1. Twenty-seven credits in MTH courses:
 - MTH-121, 122, 210, 223, 310, and 421 or 431;
 - Nine additional upper-level MTH credits numbered above 210, with at least three credits taken at the 300- or 400-level.
2. Six credits of cognates, selected from:
 - CSC-116, 118, or 119;
 - CSC-121 or higher.

Mathematics Minor Requirements

Eighteen credits, which must include:

1. MTH-121 and 122;
2. Twelve additional MTH credits, including at least nine credits numbered MTH-210 or above.

Mathematical Sciences Major Requirements

Thirty-nine credits, which must include:

1. MTH-121, 122, 210, 223, 310, 336, 341, and 421 or 431;
2. CSC-116, 118, or 119;
3. CSC-121.
4. Nine additional credits in upper-level Mathematics or Computer Science courses, at least four credits of which must be Computer Science. Courses that combine applications and theory are encouraged (e.g. MTH-211, 342, 391, 399, or 499; and CSC-240, 310, 420, 430, 440, or 499).

Program Considerations:

- MTH-100, 204, 205, and 206 do not count toward the Mathematics minor.
- At least one statistics course is recommended.
- Mathematics majors are encouraged to take PHY-121 as their Explore Scientific Thinking course.
- Students interested in graduate school in mathematics should complete both MTH-421 and MTH-431 and an honors project. Students interested in business and industrial careers should consider additional courses in Applied Mathematics, Computer Science and fields which apply mathematics in significant ways.

Double Major Restrictions within Mathematics Department

The following combinations of double majors are not permitted: Mathematical Sciences and Mathematics; and Mathematical Sciences and Computer Science.

Actuarial Science Major Requirements

Forty-seven credits, minimum, which must include:

1. MTH-121, 122, 210, 241, 242, 310, 341;
2. ECN-111 and 112;
3. ACC-221, 222, BUS-121, 309;
4. DAT-116;
5. 3 credits from: DAT-315, ECN-317, MTH-342, MTH-345
6. 2-3 credits from: MTH-385 Actuarial Science Internship or MTH-399 Actuarial Science Independent Study

Secondary Mathematics Teaching Major Requirements

Thirty-four credits, which must include:

1. MTH-120, 121, 122, 210, 223, 242, 310, 411 and 421.
2. Cognates:
 - Three CSC credits at the CSC-115 level or above
 - EDC-478 and 478C
3. Successful completion of requirements for Secondary Education majors.

Middle Grades Mathematics Teaching Minor Requirements (Grades 5-9):

Nineteen credits in Mathematics, which must include:

1. MTH-110 or 111; 112; 116 or 242; 120; 121; 207 or 411
2. Cognates: EDC-478 and 478C
3. Successful completion of requirements for the PK-6 or Secondary Education majors.

Requirements for Honors in Mathematics

1. A strong program of mathematics courses: at least five courses at the 300- or 400-level, including both MTH-421 (Abstract Algebra) and MTH-431 (Advanced Calculus).
2. A grade point average of at least 3.5 in Mathematics major courses
3. A project including both a paper and oral presentation of honors quality

MTH 100 Applied Algebra

3 cr

Develops mathematical skills with an emphasis on increasing the students' ability to interpret and reason with quantitative information. Focuses on mathematical critical thinking and problem solving. Topics include variables and functions, linear, quadratic, exponential and other models, each presented in the context of applications from social and natural sciences, business, and everyday life.

MTH 108 Introduction to College Math

2 cr

Strengthen your mathematical skills in preparation for coursework requiring quantitative reasoning. Topics include algebraic and exponential expressions, polynomial and rational equations, and graphs in the coordinate system. Emphasis will be placed on the development of critical thinking and problem-solving skills through applications.

MTH 110 Liberal Arts Mathematics

NS3

3 cr

Exploration of the beauty, ubiquity, and power of mathematics in the context of real-world applications. Topics may include: urban planning, optimization, voting theory and social choice, game theory, coding information, and mathematics in art and nature.

MTH 111 College Algebra with Applications

3 cr

Establishes problem-solving and critical thinking skills through applications. Topics include number systems, algebraic expressions and equations, and a variety of functions including linear, quadratic, exponential, and logarithmic. Intended for students who will take MTH-112 or will encounter quantitative reasoning in multiple courses.

MTH 112 Pre-Calculus

NS3

3 cr

Foundational concepts for the study of calculus. Investigates polynomial, rational, exponential, logarithmic and trigonometric functions. Explores the ideas of functions and graphs, with emphasis on concepts and skills central to calculus. May not be taken for credit by students who have successfully completed MTH-121, 122 or 210.

MTH 113 Applied Calculus

NS3

3 cr

Applications of calculus to business and the natural and social sciences. Background in trigonometry not needed. Intended as a final course in mathematics. Students planning to take MTH-122 should take MTH-121 instead.

MTH 116 Elementary Statistics

NS3

3 cr

Introduction to modern elementary statistics and applications. Focuses on statistical reasoning and data analysis. Includes statistical design of experiments, estimation, hypothesis testing, regression, correlation and other selected topics.

MTH 117 Intro to Matrices and Linear Methods

NS3 2 cr
Introduction to solving systems of linear equations, linear programming, elementary matrix theory, and the modeling of situations which are linear. Applications from business and natural and social sciences. Note: The content of this course is necessary background for MTH-310. Requires placement in MTH-112 or 4 years of high school math.

Prerequisite: MTH-112 or Pre-Calculus in High School

MTH 120 Discrete Mathematics

NS3 3 cr
Introduction to formal logic, sets, functions and relations, counting methods, graphs and trees, and recursive structures and inductive reasoning.

Prerequisite: MTH-112 or Pre-Calculus in High School

MTH 121 Calculus I

NS3 3 cr
Introduction to the calculus of one variable. Includes limits and continuity, the derivative and applications, the integral and applications, infinite series and sequences. (Part I of II)

Prerequisite: MTH-112 or Pre-Calculus in High School

MTH 122 Calculus II

NS3 3 cr
Introduction to the calculus of one variable. Includes limits and continuity, the derivative and applications, the integral and applications, infinite series and sequences. (Part II of II)

Prerequisite: MTH-121

MTH 180 Topics in Mathematics

NS3 2-3 cr
Selected topics of current or historic importance. *Prerequisites* vary with selections.

MTH 192 Mathematical Modeling

NS3 QR 3 cr
Application of various mathematical topics in the context of modeling real-world phenomena. Mathematical topics include matrix arithmetic, derivatives and integrals, dynamical systems, and equilibrium and stability analysis, among others. Real-world phenomena include population growth, ecological competition and predation, and traffic flow, among others.

Prerequisite: MTH-112

MTH 204 Number Systems for PK-6 Teachers

NS3 3 cr
Introduction to number systems and operations, including early algebraic thinking, problem solving, set theory, and elementary logic. Analysis and construction of effective mathematical tasks in teaching number systems and operations at the PK-6 level.

Prerequisite: MTH-110 or above or satisfying of math competency

MTH 205 Rational Numbers for PK-6 Teachers

NS3 3 cr
Unpacking mathematical content and identifying competence for rational numbers, with a focus on representations, learning trajectories, performing and supporting mathematical explanations, and interpreting and extending mathematical thinking.

Prerequisite: MTH-110 or above or satisfying of math competency

MTH 206 Geometry for PK-6 Teachers

NS3 3 cr
An exploration of 2-D and 3-D geometry topics and spatial relations while exploring the high leverage teaching practice of assessment, noticing student thinking, and using representations.

Prerequisite: MTH-110 or above or satisfying of math competency

MTH 207 Geometry for Middle Grades Teachers

3 cr
An overview and examination of geometry and measurement topics and pedagogical approaches for teaching grades 5-9. Uses a variety of tools including dynamic geometry software. Topics include proofs,

congruence, similarity, coordinate geometry, geometry learning trajectories, and connections of geometry to other content areas.

Prerequisite: MTH-112

MTH 210 Multivariable Calculus

NS3 3 cr
Continuation of MTH-122. Includes functions of several variables, vectors, vector-valued functions, three-dimensional analytic geometry, partial differentiation and multiple integration.

Prerequisite: MTH-122

MTH 211 Differential Equations

NS3 3 cr
Techniques and theory of solving ordinary differential equations. Includes series solutions, numerical methods and applications.

Prerequisite: MTH-210

MTH 221 Introduction to Cryptography

NS3 3 cr
Introduction to mathematics from several different branches of the subject including number theory, matrix algebra, probability, and statistics, all of which play a role in enciphering and deciphering secret messages.

Prerequisite: MTH-122

MTH 223 Mathematical Structures

NS3 3 cr
Introduction to proof techniques. Theoretical analysis of discrete structures such as sets, graphs, functions, and relations.

Prerequisite: MTH-120 or MTH-122

MTH 241 Financial Mathematics

NS3 QR 3 cr
Introduction of fundamental concepts of interest theory. Applications of those concepts in calculating present and accumulated values for various streams of cash flows. Topics include reserving valuations, pricing, asset/liability management, investment income, and capital budgeting. Financial instruments such as derivatives will also be introduced.

Prerequisite: MTH-112

MTH 242 Applied Statistical Methods

NS3 QR 3 cr
Applied study of inferential and descriptive statistics. Topics include data visualization, confidence intervals and hypothesis tests, linear regression, ANOVA, ANCOVA, categorical data analysis, resampling methods, and time series. Emphasizes written and oral communication of results. Uses statistical software, such as R.

Prerequisite: A MTH course numbered 112 or above, or DAT-115 or 116, or ECN-217, or PSY-220

MTH 280 Topics in Mathematics

NS3 2-3 cr
Selected topics of current or historic importance. *Prerequisites* vary with selections.

Prerequisite: MTH-122

MTH 310 Linear Algebra

NS3 3 cr
Study of finite-dimensional real vector spaces; kernel, dimension, basis, linear transformations and their matrices, and eigenvalues.

Prerequisite: MTH-122

MTH 323 Complex Analysis

NS3 3 cr
Introduction to the theory of functions of a single complex variable. Analytic functions, complex series, Cauchy's theorem and conformal mapping.

Prerequisite: MTH-210

MTH 336 Numerical Analysis

NS3 3 cr
Analysis and implementation of numerical algorithms for approximating functions, derivatives and integrals, and for solving nonlinear equations, ordinary differential equations and systems of linear equations. Exploration of implementation and application through standard libraries available in modern programming languages.

Prerequisite: MTH-122 and one of CSC-115, DAT-116, CSC-118, CSC-119.

MTH 341 Probability and Statistics I

NS3 3 cr
In-depth examination of probability and introduction to mathematical statistics. Topics include axiomatic probability, discrete and continuous random variables, transformations of random variables, moment generating functions, limit theorems, and point estimation.
Prerequisite: MTH-122

MTH 342 Probability and Statistics II

NS3 3 cr
Continuation of MTH-341, focusing on mathematical statistics. Selected topics may include maximum likelihood estimation, likelihood ratio tests, linear models, and Bayesian methods.
Prerequisite: MTH-341

MTH 345 Stochastic Processes

NS3 3 cr
Introduction to the theory and applications of stochastic processes, including Markov chains, Poisson processes, queueing theory, and Brownian motion. Example applications include models of random walks, DNA sequences, call centers, and the Black-Scholes option pricing formula.
Prerequisite: MTH-210

MTH 351 Elementary Number Theory

NS3 3 cr
Study of integers, including divisibility, the theory of prime numbers, congruences and solutions of equations in integers.
Prerequisite: MTH-223

MTH 380 Topics in Mathematics

NS3 3 cr
Selected topics of current or historic importance. *Prerequisites* vary with selections.

MTH 390 Combinatorics

NS3 3 cr
Introduction to combinatorial theory. Topics include enumeration, recurrence, generating functions, graph theory and optimization.
Prerequisite: MTH-120 or MTH-122

MTH 391 Introduction to Graph Theory

NS3 3 cr
Introductory survey of the major concepts and applications of graphs, digraphs and networks. Application areas include transportation, traffic flow, games and puzzles.
Prerequisite: MTH-122

MTH 411 College Geometry

NS3 3 cr
Axiomatic systems, models, finite geometries, Hilbert's axioms, independence of the parallel postulate, and introduction to non-Euclidean geometries with emphasis on hyperbolic geometry.
Prerequisite: MTH-223

MTH 413 Topology

NS3 3 cr
Introduction to point-set topology. Includes topological properties of Euclidean spaces, abstract spaces and metric spaces. Explores connectedness, compactness, continuity and homeomorphisms.
Prerequisite: MTH-223

MTH 421 Abstract Algebra

NS3 3 cr
Introduction to the theory of algebraic structures including elementary theory of groups, rings and fields.
Prerequisite: MTH-223 and MTH-310

MTH 431 Advanced Calculus

NS3 3 cr

In-depth examination of the calculus of one variable, including topology of the real line, sequences and series of functions.

Prerequisite: MTH-210 and MTH-223

MTH 491 Mathematical Methods of Physics

NS3 3 cr
Survey of advanced mathematical topics for application in the physical sciences. Topics selected from Fourier series, transform calculus, partial differential equations, boundary value problems, complex variables and vector calculus. Highly recommended for students planning graduate study in the physical sciences or applied mathematics.
Prerequisite: MTH-211; MTH-310 recommended

MTH 500 Senior Thesis

3 cr
Requires department permission.

Music (MUS)

Alma College is an accredited member of the National Association of Schools of Music, offers two-degree options: Bachelor of Music in Music Education and Bachelor of Arts with a major in Music.

Note: All students must complete a minimum of 60 credits outside of their major course designator. Specifically, Music Majors must complete 60 credits under a different course designation other than MUS.

Bachelor of Arts in Music Requirements

Thirty-four credits, which must include:

1. MUS-111, 112, 116, 121, 122, 211, 212, 214, 345, 443, 444, 500;
2. Two credits of Ensembles;
3. Two credits of Applied lessons at the 290 level and above;
4. MUS-500 is a senior project and may take the form of a recital research paper or other Department approved project. Requests for MUS-500 projects must be received at the end of the year preceding graduation.
5. Students are strongly advised to continue their study of voice or an instrument through studio lessons and ensembles.

Bachelor of Arts in Music with Selected Concentration

Forty-eight to Fifty-six total credits, to include a thirty-one-credit core and one concentration selected from:

Music Composition (25 cr) Music Technology (21 cr)
Music Performance (17 cr) Music Business & Management (20 cr)

Bachelor of Arts in Music with Concentrations

Required Music Core Courses (31 credits):

1. MUS-111, 112, 116, 121, 122, 214, 345, 500;
2. BUS-234;
3. Six credits from MUS-143, 443, or 444
4. Two credits of Music Ensembles
5. Two credits of Applied Lessons at the 290 level and above

Music Advising Notes:

- Students are strongly advised to continue their study of voice or an instrument through studio lessons and ensembles.
- Additionally, students are advised to take MUS-345 during the winter semester of their first year.

Music Composition Concentration

Twenty-five credits, to include:

1. MUS-211, 212, 215, 225;
2. NMS-160, 382
3. Four credits of MUS-298
(Additional to the 2 credits required by the B.A. for a total of 6 credits of applied private lessons at the 290 level on one instrument or voice.)
4. Eight credits from MUS-398

Advising Notes: In this concentration, the MUS-500 requirement takes the form of a large-scale work and is graded by an AC Music Faculty member.

Music Performance Concentration

Seventeen credits, to include:

1. MUS-211, 212, 499;
2. Three credits of Applied Lessons at the 290 level and above. (In addition to the 2 credits required by the B.A. for a total of
3. Six credits of Applied Lessons at the 390 of one instrument or voice

Advising Notes: MUS-500 takes the form of a solo recital.

Music Business and Arts Administration Concentration

Twenty credits, to include:

1. BUS-117, 121; NMS-101, 242;
2. Nine credits from BUS-225, 309, 323, 333.

Advising Notes: In this concentration, MUS-500 will be an internship observed by an AC Music Faculty member and accompanying portfolio which will be graded with input from the cooperating professional.

Music Technology Concentration

Twenty-one credits, to include:

1. NMS-101, 160, 242, 382, 215;
2. Nine credits from CSC-119, NMS-130 or 310.

Advising Notes: In this concentration, the MUS-500 requirement takes the form of an internship observed by an AC Music Faculty member and accompanying portfolio, which will be graded with input from the cooperating professional.

Bachelor of Music in Music Education

Seventy-three credits, which must include:

1. MUS-111, 112, 116, 121, 122, 211, 212, 214, 215, 237, 337, 344, 345, 431, 443, 444;
2. Six credits of Ensembles, one of which must be MUS-155, 157, or 159;
3. Fourteen credits of Applied Lessons at the 290 level and above on one instrument or voice, subject to Departmental approval.
4. Two credits of elective coursework subject to Departmental approval.
5. Students with a vocal emphasis must complete MUS-132, MUS-138, and one term of an instrumental ensemble or instrumental pedagogy course.
6. Students with an instrumental emphasis must complete MUS-134, 135, 136, 137 and either MUS-138 or one term of a vocal ensemble.
7. All candidates must complete MUS-116 (piano proficiency) by the end of the fall term of the junior year.

Music Minor Requirements

Eighteen credits, which must include:

1. MUS-111, 112, 121 and 122;
2. MUS-120, 443, or 444;
3. Two credits from MUS-140, 211, 214, 215, 237; may also complete courses not previously taken within the MUS-120, 443, or 444 sequence.
4. Three credits of Applied Lessons at the 190 level or above on one instrument or voice.

Applied Lessons

Applies to: MUS-191-198, 291-298, 391-398, and 491-498.

Private lesson offerings are open to both majors and non-majors who complete an audition and receive permission to register. The 300-level (391-398) and 400-level (491-498) represent upper-level performance skill and experience and require music faculty approval. **100-level lessons do not count toward the degree.** There is a private lesson instruction fee of \$165 per term for all levels (MUS-191-198, 291-298, 391-398, and 491-498). (Offered every term)

Ensembles

Applies to: MUS-150-159 and 351.

Ensembles are open to all students who audition and receive permission prior to registration. All ensembles are offered every year. **No more than eight credits of participation in all ensembles combined may be applied toward degree requirements.**

MUS 101 Fundamentals of Music

AH 2 cr
Music fundamentals including notation of pitch, clefs, and staff; chromatic alteration and enharmonic equivalents; accidentals; identification and notation of rhythm, meter, tempo, dynamics, and articulation; and concepts of scales and key signatures. Credits do not count toward any music degree.

MUS 106 Piano for the Non-Major I

AH 2 cr
Introductory piano course for non-majors and students without prior piano instruction. Basics of music notation and vocabulary of music, scales, technique, repertoire and performance skills including simple pieces in various keys.

MUS 107 Piano for the Non-Major II

AH 2 cr
Second semester introductory piano for non-majors. Continuation of study involving more advanced technique, expanded repertoire, and basic improvisational skills.
Prerequisite: MUS-106 or Audition

MUS 111 Musicianship I

AH 3 cr
Study of the structure and use of intervals and chords in a basic harmonic vocabulary including diatonic triads and their inversions in major and minor keys, functional tonal principles, harmonic cadences, embellishing tones, principles of harmonization, part-writing chords, melodic relationships and periodicity, and dominant seventh chords. (Offered every year)

MUS 112 Musicianship II

AH 3 cr
Continuation of MUS-111. Study of non-dominant seventh chords, secondary functions, modulation, form and dramatic shapes including binary, rounded binary, ternary, fugue, and variation. (Offered every year)
Prerequisite: MUS-111

MUS 114 Piano Proficiency I

AH 2 cr
Fundamental skills, technique and repertoire development. Scales, simple accompaniment patterns, harmonization and improvisation. *Music majors only.*

MUS 115 Piano Proficiency II

AH 2 cr
Level II piano proficiency, continuations of scale and arpeggio technique, chord progressions, solo and ensemble repertoire.
Prerequisite: MUS-114 or Audition; Music Major

MUS 116 Piano Proficiency III

AH 2 cr
Level III piano proficiency. Technique includes both black and white major and minor scales, arpeggios, chromatic scales, seventh chords, accompany a piece from the major instrument or voice; intermediate repertoire levels. (Offered every year)
Prerequisite: MUS-115 or Audition; Music Major

MUS 119 Guitar for the Non-Major

AH 2 cr
Fundamentals for the beginning guitar player.

MUS 120 Survey of Music Literature

AH 3 cr
Introductory survey of major musical works representative of the styles and genres of the important periods of musical development. Extensive listening.

MUS 121 Aural Skills I

AH 2 cr
 Develops aural skills through a range of melodic, harmonic and rhythmic exercises. Introduces solfege syllables. May be taken concurrently with MUS-111 or in a subsequent term. (Offered every year)
Prerequisite: Take MUS-111

MUS 122 Aural Skills II

AH 2 cr
 Continuation of Aural Skills I. May be taken concurrently with 112 or in a subsequent term.
Prerequisite: MUS-121

MUS 131 Piano Pedagogy

AH 1 cr
 Principles of musicianship on the piano. Designed for B.M. students. Emphasis on pedagogical methods and materials used in teaching piano to beginning and intermediate students.
Prerequisite: 6 credits from MUS-196 or MUS-396

MUS 132 Vocal Pedagogy

AH 2 cr
 Introduction to the physiology of the vocal mechanism. Development of fundamental techniques used in private voice instruction, including vocal exercises used to establish and promote vocal health, literature for young singers, and the teaching of voice lessons. Offered Winter Term, even numbered years.

MUS 134 Woodwind Pedagogy

AH 1 cr
 Principles of tone production, fingering and embouchure for flute, oboe, clarinet and bassoon (or saxophone). Specialization in the instrument of the student's choice.

MUS 135 Brass Pedagogy

AH 1 cr
 Principles of tone production, fingering and embouchure for trumpet, French horn, trombone and tuba. Specialization in the instrument of the student's choice.

MUS 136 String Pedagogy

AH 1 cr
 Principles of musicianship on the violin, viola, cello and double bass. Designed for music education students. Emphasis on elementary string teaching methods and large group ensemble techniques necessary for school orchestral directing.

MUS 137 Percussion Pedagogy

AH 1 cr
 Principles of playing percussion instruments with emphasis on snare drum, mallet keyboard instruments and timpani.

MUS 138 Choral Pedagogy

AH 2 cr
 Principles of voice production, sight reading and singing. Emphasis on the election of choral literature particularly with regard to developing voice. Offered Fall Term, odd numbered years.
Prerequisite: 2 terms of MUS-151 and/or 157 and/or 158

MUS 140 Non-Western Music

AH 3 cr
 An introductory survey of the traditional music of non-Western countries. Examines the role of music as ritual, aesthetic experience, and mode of communication in diverse cultures. No music background necessary.

MUS 143 Survey of Popular Music

AH EXP1 3 cr
 Survey popular music repertory from the early 1900s through today. Explore interactions between culture and song during the twentieth and twenty-first centuries. Reflect on historical and current trends and developments.

MUS 150 Accompanying

AH THM7 1 cr

MUS 151 College Chorale

AH THM7 1 cr

MUS 152 Chamber Orchestra

AH THM7 1 cr

MUS 153 Kiltie Band

AH THM7 1 cr

MUS 153G Winter Guard Ensemble

AH THM7 1 cr
 Winter Guard Ensemble will provide students with experience or interest in the color guard arts a learning and performance-oriented course during the winter term. Students will develop requisite and advanced skills using flags, rifles, sabres and body movement. The ensemble will perform for select athletic events and at select winter guard competitions. Course fee.
Prerequisite: Departmental permission

MUS 154 Scottish Arts

AH THM7 1 cr

MUS 155 Percussion Ensemble

AH THM7 1 cr

MUS 156 Jazz Ensemble

AH THM7 1 cr

MUS 157 Alma Acapella

AH THM7 1 cr

MUS 158 Contemporary Music Ensemble

AH THM7 2 cr
 Perform new and living music. Prepare music by contemporary and marginalized composers, explore modern trends in composition and concert music. Culminates in a public performance for the Alma community.

MUS 159 Chamber Music

AH THM7 1 cr

MUS 159A Chamber Music Strings

AH THM7 1 cr

MUS 159E Chamber Music Flute

AH THM7 1 cr

MUS 159F Chamber Music Strings

AH THM7 1 cr

MUS 159G Chamber Music Clarinet

AH THM7 1 cr

MUS 159I Chamber Music Saxophone

AH THM7 1 cr

MUS 159J Chamber Music High Brass

AH THM7 1 cr

MUS 159K Chamber Music Horn

AH THM7 1 cr

MUS 159L Chamber Music Trombone

AH THM7 1 cr

MUS 159M Musical THR Vocal Ensemble

AH THM7 1 cr

MUS 159N Chamber Music Low Brass

AH THM7 1 cr

MUS 159V Chamber Music Vocal AH THM7	1 cr	MUS 192F Oboe AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-192F previously or permission</i>	1 cr
MUS 171 Music and Social Justice AH EXP1	3 cr	MUS 192G Clarinet AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-192G previously or permission</i>	1 cr
The intersection of the fields of Music and Social Justice has a longstanding history of advocacy and inspiring change. This course is an introduction to understanding the impact of music on various historical events. Students will study world cultures and events, identify where music can be found, and discuss why this is important. Through this course, students will learn new analytical skills, practice talking about difficult topics in a respectful way, and synthesize these skills to their own lives.		MUS 192H Bassoon AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-192H previously or permission</i>	1 cr
MUS 172 History of Musical Theatre AH EXP1	3 cr	MUS 192I Saxophone AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-192I previously or permission</i>	1 cr
Explore the history of Musical Theatre as it transitions from vaudeville to the early musical, Golden Age hits, musicals of the 60s and 70s, the mega musical of the 1980s, and contemporary musicals of the last two decades. Experience musicals and participate in several aspects, including being an audience member, a performer, a composer or lyricist, and a producer.		MUS 192P Bagpipes AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-192P previously or permission</i>	1 cr
MUS 173 Songwriting AH EXP1	3 cr	MUS 193J Trumpet AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-193J previously or permission</i>	1 cr
Explore creative musicianship through songwriting and song study. Write new songs including lyrics, harmony, and melody. Learn basics of theory including harmony, key, and song structure. Record and perform songs individually and collaboratively. Present songs in a public performance at the end of the semester.		MUS 193K Horn AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-193K previously or permission</i>	1 cr
MUS 180 Topics in Music AH	1-3 cr	MUS 193L Trombone AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-193L previously or permission</i>	1 cr
Selected topics in music. May be taken more than once if topics differ. Only two registrations count toward Music Major.		MUS 193M Euphonium AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-193M previously or permission</i>	1 cr
MUS 191A Violin AH THM7	1 cr	MUS 193N Tuba AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-193N previously or permission</i>	1 cr
Private lessons. Course fee. <i>Prerequisite: MUS-191A previously or permission</i>		MUS 194 Percussion AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-194 previously or permission</i>	1 cr
MUS 191B Viola AH THM7	1 cr	MUS 195 Voice AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-195 previously or permission</i>	1 cr
Private lessons. Course fee. <i>Prerequisite: MUS-191B previously or permission</i>		MUS 196 Piano AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-196 previously or permission</i>	1 cr
MUS 191C Violoncello AH THM7	1 cr	MUS 197A Organ AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-197A previously or permission</i>	1 cr
Private lessons. Course fee. <i>Prerequisite: MUS-191C previously or permission</i>		MUS 197B Harpsichord AH THM7 Private lessons. Course fee. <i>Prerequisite: MUS-197B previously or permission</i>	1 cr
MUS 191D Double Bass AH THM7	1 cr		
Private lessons. Course fee. <i>Prerequisite: MUS-191D previously or permission</i>			
MUS 191E Electric Guitar AH THM7	1 cr		
Private lessons. Course fee. <i>Prerequisite: MUS-191E previously or permission</i>			
MUS 191K Electric Bass Guitar AH THM7	1 cr		
Private lessons. Course fee. <i>Prerequisite: MUS-191K previously or permission</i>			
MUS 191Y Classical Guitar AH THM7	1 cr		
Private lessons. Course fee. <i>Prerequisite: MUS-191Y previously or permission</i>			
MUS 192E Flute AH THM7	1 cr		
Private lessons. Course fee. <i>Prerequisite: MUS-192E previously or permission</i>			

MUS 198 Composition

AH THM7

1 cr

Applied composition provides individual lessons in both the craft and creative process of composing for acoustic instruments. Completed projects that develop original musical ideas for various instrumental and vocal ensembles will be required. Course fee.

Prerequisite: MUS-111 and permission

MUS 211 Comprehensive Musicianship III

AH

3 cr

Continuation of MUS-112. Study of advanced harmonic techniques including chromatically altered chords, mode mixture and chromatic relationships, and remote modulations. Advanced study of form including sonata, rondo, and related types. Enharmonic use of chords expanded tonicization and harmonic sequence, and linear harmonies.

Prerequisite: MUS-112

MUS 212 Comprehensive Musicianship IV

AH

3 cr

Continuation of Music 211. Study of new musical resources and techniques in the twentieth and twenty-first centuries: new pitch bases, harmonic structures and methods, approaches to rhythm and meter, atonality, serial procedures, indeterminacy, sounds and textures (both acoustic and electronic), and jazz and related techniques and idioms.

Prerequisite: MUS-211

MUS 214 Intro to Music Technology

AH

2 cr

Designed primarily for the music major, the course examines MIDI (Musical Instrument Digital Interface) techniques and applications for recording, scoring and musical production. Covers MIDI configurations, sequencing, multi-track recording, mixing and composing/arranging techniques. Students will also be trained in the use of Finale, an industry-standard application for music notation. (Offered every year)

Prerequisite: Music Major or permission

MUS 215 Audio Recording Workshop

AH

2 cr

Students' complete studio, field and stage recording projects. Topics and applications include digital audio recording systems and formats, sampling, critical listening, understanding acoustics, microphone techniques, EQ, compression as well as editing, final mixing and mastering. Cross-Listed with NMS-215. (Offered every year)

Prerequisite: MUS-214

MUS 225 Orchestration and Arranging

AH

2 cr

Provides a practical, in-depth examination of acoustic instruments, and explores methods of scoring, transcribing and arranging for a variety of instrumental ensembles. Includes a final orchestration project created using Finale or Sibelius software that will be played by the Alma College band or orchestra.

Prerequisite: MUS-112

MUS 237 Conducting and Score Reading

AH

2 cr

Art of conducting, rehearsal techniques and procedures, score reading, problems of interpretation, organization and activities of choral and instrumental groups. (Offered Fall, Even-numbered years)

Prerequisite: MUS-112

MUS 250 Musical Theatre Techniques

AH

3 cr

The staging of and participation in the performance of a work for the musical theatre - including acting, singing and movement - is presented at the end of the term. Course may be repeated once for credit.

MUS 284 Music in Film

AH

3 cr

This course examines the wide range of musical styles and aesthetic approaches used in narrative films. By analyzing examples from silent movies, Hollywood classics, foreign films, and recent releases, the

class explores the functional and dramatic roles of music. No formal music theory experience is required.

Prerequisite: ECL-101

MUS 291A Violin

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191A previously or permission

MUS 291B Viola

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191B previously or permission

MUS 291C Violoncello

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191C previously or permission

MUS 291D Double Bass

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191D previously or permission

MUS 291E Electric Guitar

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191E previously or permission

MUS 291K Electric Bass Guitar

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191K previously or permission

MUS 291Y Classical Guitar

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-191Y previously or permission

MUS 292E Flute

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-192E previously or permission

MUS 292F Oboe

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-192F previously or permission

MUS 292G Clarinet

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-192G previously or permission

MUS 292H Bassoon

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-192H previously or permission

MUS 292I Saxophone

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-192I previously or permission

MUS 292P Bagpipes

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-192P previously or permission

MUS 293J Trumpet

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-193J previously or permission

MUS 293K Horn

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-193K previously or permission

MUS 293L Trombone

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-193L previously or permission

MUS 293M Euphonium

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-193M previously or permission

MUS 293N Tuba

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-193N previously or permission

MUS 294 Percussion

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-194 previously or permission

MUS 295 Voice

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-195 previously or permission

MUS 296 Piano

AH HM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-196 previously or permission

MUS 297A Organ

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-197A previously or permission

MUS 297B Harpsichord

AH THM7

1 cr

Private lessons. Course fee.

Prerequisite: MUS-197B previously or permission

MUS 298 Composition

AH THM7

1 cr

Applied composition provides individual lessons in both the craft and creative process of composing for acoustic instruments. Completed projects that develop original musical ideas for various instrumental and vocal ensembles will be required. Course fee.

Prerequisite: MUS-111 and permission

MUS 337 Advanced Conducting

AH

2 cr

Continuation of MUS-237. Emphasis on advanced analytical, interpretive, and technical conducting skills, as well as practical aspects of successfully leading instrumental and choral ensembles. Offered Winter Term, Odd numbered years.

MUS 344 Elementary School Music

AH

3 cr

MUS-344 Elementary School Music Examination of methods and materials in music. Required of Music Majors who wish to be certified to teach music at elementary and secondary levels. Open also to Education students with music background. (Offered Fall, Odd numbered years)

Prerequisite: Music Education Major;

MUS 345 Career Skills for Musicians

AH

2 cr

In today's ever-changing environment, new and creative approaches are necessary to shape a career in music. This course, a one-

semester introduction to the basic principles of music entrepreneurship, is designed to help students acquire a range of practical skills necessary to succeed after graduation. Topics covered include: effectively marketing yourself, physical and mental health for musicians, copyright laws, website development, tips for interviews and auditions, and many other areas pertinent to developing a satisfying career in music. Offered Winter Term, even numbered years.

MUS 350 Opera Workshop

AH

1 cr

Basic techniques of operatic performance: role preparation, body movement related to music, acting, and techniques. May be repeated for up to a total of four credits

MUS 351 Alma College Choir

AH THM7

1 cr

Final registration subject to audition

MUS 380 Topics in Music

AH

2-3 cr

Selected topics in music. May be taken more than once if topics differ. Only two registrations count toward a Music Major.

MUS 391A Violin

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391A previously or permission

MUS 391B Viola

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391B previously or permission

MUS 391C Violoncello

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391C previously or permission

MUS 391D Double Bass

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391D previously or permission

MUS 391E Electric Guitar

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391E previously or permission

MUS 391K Electric Bass Guitar

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391K previously or permission

MUS 391Y Classical Guitar

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-391Y previously or permission

MUS 392E Flute

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-392E previously or permission

MUS 392F Oboe

AH THM7

2 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.

Prerequisite: MUS-392F previously or permission

MUS 392G Clarinet

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392G previously or permission

MUS 392H Bassoon

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392H previously or permission

MUS 392I Saxophone

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392I previously or permission

MUS 392P Bagpipes

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392P previously or permission

MUS 393J Trumpet

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393J previously or permission

MUS 393K Horn

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393K previously or permission

MUS 393L Trombone

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393L previously or permission

MUS 393M Euphonium

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393M previously or permission

MUS 393N Tuba

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393N previously or permission

MUS 394 Percussion

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-394 previously or permission

MUS 395 Voice

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-395 previously or permission

MUS 396 Piano

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-396 previously or permission

MUS 397A Organ

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-397A previously or permission

MUS 397B Harpsichord

AH THM7 2 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-397B previously or permission

MUS 398 Advanced Composition

AH THM7 2 cr
Individual lessons are provided in both the craft and creative process of composing for acoustic instruments. This advanced course focuses on completing large-scale projects that develop original musical ideas for various instrumental and vocal ensembles. Course fee.
Prerequisite: MUS-111 and instructor permission

MUS 431 General Methods of Music Education

AH 3 cr
Principles of group process teaching and classroom management. Accompaniment skills in piano and recorder, rehearsal techniques, teaching basic instrumental and vocal skills in grades 5-12 and a pedagogical overview of the human voice and standard band and orchestral instruments including tone production, practical ranges and related functions in an ensemble. (Offered Fall, Even-numbered years)
Prerequisite: Instructor permission

MUS 443 Music History I

AH 3 cr
Music from Antiquity through the Baroque, Classical, and Early Romantic periods.
Prerequisite: MUS-112

MUS 444 Music History II

AH 3 cr
Music of the 19th, 20th, and 21st centuries.
Prerequisite: MUS-112

MUS 451 Alma Choir Abroad

AH 3 cr
An international concert tour for members of the Alma College Choir. Students will present concerts in sacred and secular venues, participate in music festivals when possible, and examine local musical culture, geography, history and architecture.

MUS 491A Violin

AH THM7 3 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391A previously or permission

MUS 491B Viola

AH THM7 3 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391B previously or permission

MUS 491C Violoncello

AH THM7 3 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391C previously or permission

MUS 491D Double Bass

AH THM7 3 cr
Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391D previously or permission

MUS 491E Electric Guitar

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391E previously or permission

MUS 491K Electric Bass Guitar

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391K previously or permission

MUS 491Y Classical Guitar

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-391Y previously or permission

MUS 492E Flute

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392E previously or permission

MUS 492F Oboe

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392F previously or permission

MUS 492G Clarinet

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392G previously or permission

MUS 492H Bassoon

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392H previously or permission

MUS 492I Saxophone

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392I previously or permission

MUS 492P Bagpipes

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-392P previously or permission

MUS 493J Trumpet

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393J previously or permission

MUS 493K Horn

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393K previously or permission

MUS 493L Trombone

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393L previously or permission

MUS 493M Euphonium

AH THM7 3 cr

Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393M previously or permission

MUS 493N Tuba

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-393N previously or permission

MUS 494 Percussion

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-394 previously or permission

MUS 495 Voice

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-395 previously or permission

MUS 496 Piano

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-396 previously or permission

MUS 497A Organ

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-397A previously or permission

MUS 497B Harpsichord

AH THM7 3 cr
 Private lessons. Intended for upper-level performance skill. Final registration subject to Departmental approval. Course fee.
Prerequisite: MUS-397B previously or permission

MUS 498 Advanced Composition

AH THM7 3 cr
 Individual lessons are provided in both the craft and creative process of composing for acoustic instruments. This advanced course focuses on completing large-scale projects that develop original musical ideas for various instrumental and vocal ensembles. Course fee.
Prerequisite: MUS-111 and instructor permission

MUS 499 Music Independent Study

2 cr
Requires department permission, Music Majors Only

MUS 500 Senior Recital or Thesis

AH 2 cr
 Satisfies the Department's comprehensive evaluation requirement.
Prerequisite: Instructor permission

New Media (NMS)

New Media Major Requirements

Thirty credits, minimum, to include core and one concentration listed below:

Core Courses:

1. Fundamentals (9 cr): NMS-101, 102; and 202 or ECL-294;
2. Intermediate (2 cr): NMS-205;
3. Advanced: (7-9 cr): NMS-300 or 302; 385 and 450.

Concentrations – Select One:

Advertising & Social Media

Fourteen credits, including:

1. DES-101, NMS-242 and 310;
2. Six credits of electives from: ART-326, BUS-333; DES-231, 401; ECL-202, 270; NMS-114, 140, 240, 245, 271, 282, 320, 342, or 343.

Animation & Interactive Storytelling

Twelve credits, including:

1. ART-162 and 361;
2. NMS-210 and 315.

Film & Video

Fifteen credits, including:

1. NMS-140, 240, and either NMS-340 or 381;
2. Six credits of electives from: ART-126, 228; NMS-145; 210, 225, 244, 271, 275, 340, 347 or 381.

Sports Media

Twelve credits, including:

1. ECL-221, and either DES-101 or NMS-140;
2. Six credits of electives, with at least 3 credits at the 300-level, from: BUS-230; DES-101, 231; ECL-330; ECL-270; NMS-140, 242, 244, 245, 271, 310, 343.

New Media Minor Requirements

Nineteen credits, which must include:

1. Fundamentals (9 cr): NMS-101, 102, and 202
2. Intermediate (2 cr): NMS-205
3. Advanced (6 cr): NMS-300 or 302, and 450
4. Additional Upper-level New Media Electives (2 cr).

NMS 101 Introduction to Media Making

3 cr

Introduction to technical, social, and cultural aspects of new media. Topics include media convergence, interactivity, social networking, and participatory culture. Includes lab work exploring basic principles of effective communication employing a variety of digital media for designing and delivering graphics, audio and video.

NMS 102 Introduction to Media Histories

3 cr

Explore the evolution of media, both digital and traditional, through critical and theoretical lenses. Trace the development of technologies such as digital platforms, film, and television, while examining their historical contexts. Analyze the impact of contemporary mass communication, apply key theoretical frameworks to grasp media's ongoing transformation, and gain a comprehensive understanding of how media shapes society today.

NMS 114 Introduction to Web Development

3 cr

This course provides an introductory examination of the theory and practice of communication in a digital format, including text, hypertext, visual, audio and video. Stresses application of digital media principles to authoring for the Web. Surveys the technologies underlying the World Wide Web, including Web page construction and JavaScript programming.

NMS 130 Transmedia Storytelling

EXP4

3 cr

In our society, interactivity has become a key component of media. We try to make our messages compelling and memorable, whether designing ad campaigns, websites, or Facebook profiles. Interactivity is widely debated, even within a single medium, and so the various approaches to it will make up the core inquiry for this course: what makes a piece of media interactive? How does meaning get communicated in interactive media? How can we design media using interactivity to deepen communication? Students will focus on social media, transmediation, and games, and will compose digital projects and deliver presentations, both individually and collaboratively.

NMS 140 Camera Media

3 cr

This course addresses the importance of the camera in the twenty-first century and prepares students for advanced production and critical work with its media. Through readings, discussions, and hands-on activities, students develop fluencies in three areas: camera histories, camera techniques, and camera rhetorics (the camera's persuasive power). Course fee.

NMS 145 Backpack Filmmaking

3 cr

When we stuff the power of a production studio into a backpack, we transform as travelers. Mobile video gives us the opportunity not just to tell undiscovered stories, but to rethink our own position in them: how we interact with new people, explore unfamiliar places, and find our way in foreign communities. As the course winds a path around foreign lands, students take the lead on projects using advanced video and photographic techniques. Along the way, they build a deeper understanding of the communities they visit, the stories they tell, and the camera's unique impact on memory and identity.

NMS 160 Sound Design

3 cr

This course presents an overview of digital audio and video applications and the workflows designed to produce and manipulate digital sound and moving images. This includes music and sound for video, animation, and using audio and video on the Web. Additional topics will include the basics of sound design, syncing of audio and motion video and the rudiments of audio and video production systems. Students will also be introduced to important media standards such as NTSC, HDV, MIDI, QuickTime, MPEG and various SD and HD formats.

NMS 180 Topics in New Media Studies

1-3 cr

Selected topics in new media innovations, issues and effects. May be taken more than once for credit. Course fee.

NMS 202 Screenwriting

WI GCA THM1

3 cr

Develop foundational screenwriting skills by exploring format, structure, character development, dialogue, visual storytelling, and industry trends. Write and revise small exercises to build core storytelling techniques for the screen, strengthening your ability to craft compelling narratives.

NMS 205 Symposium

2 cr

Build industry connections and collaborative skills in this intermediate course, combining talks from invited media professionals with hands-on cohort critiques. Students engage directly with industry trends and career insights while presenting works-in-progress to peers and advanced students for constructive feedback. The Symposium fosters a supportive learning community and critical media engagement, preparing students for advanced coursework and professional pathways in media.

Prerequisite: NMS-101, NMS-102, NMS-140 or NMS-202

NMS 210 Introduction to Animation

3 cr

Explore the world of animation through a foundational course that covers the history and principles of 2D and 3D techniques. Engage in both theoretical learning and practical application by studying the evolution of animation and analyzing various styles and genres. Focus on producing short animated films to gain hands-on experience in animation creation. Ideal for beginners and those interested in the art of animation.

Prerequisite: NMS-101 or NMS-140

NMS 215 Audio Recording Studio

2 cr

Overview of the impact of computers and technology in the music professions. Topics include design of recording studio and lab environments, MIDI technology, fundamentals of audio technology, multimedia applications and using sound/music on the Web. Cross-listed with MUS-215.

NMS 221 Intimacy and Technology

3 cr

Explore the way communication technologies impact and influence our relational lives. Focus on both old and new media, examining the way specific communication channels shape our romantic, platonic, familial and professional relationships. Through readings, discussion, film and scrutiny of their own technology usage, students will investigate the relationship between intimacy and technology.

NMS 225 Film Theory and Practice

3 cr

Explore how films connect to broader cultural and artistic movements through theoretical discussions, analysis of theoretical and artistic choices, and hands-on projects.

NMS 230 Game Design I

3 cr

Video game development is a burgeoning creative field that requires collaboration of experts with a variety of skill sets. Students in this course will take on the intense task of designing a video game from concept through storyboarding to prototyping and playtesting a paper model. Students will develop a game design document outlining the game's mechanics and story and will create art assets for the game. Each student will demonstrate proof of concept for their game in a presentation using the assets they developed. No coding experience is necessary for this course, and no coding will be required in the course.

NMS 232 Digital Imaging

3 cr

Exploration of aesthetic and technical relationships between still images, multiple prints and montage as they are presented in the form of the digital straight print, narratives, and/or series. Course fee.

Prerequisite: ART-120; ART-126 recommended

NMS 233 Tabletop Role-Playing Games

3 cr

The past several decades has seen an explosion of innovative board games, card games, miniature games, and pen-and-paper games, many of which involve role-playing (which is when players act out personas other than their own). Using theory, exposure to numerous games, and actual play, students will explore the design, mechanics, and social elements of non-digital, tabletop role-playing games. Course fee.

NMS 240 Digital Film Production

3 cr

Students are introduced to fundamentals of filmmaking and produce their own films. Elements covered include pre-production (financing, screenwriting and scheduling); production (cinematography, sound recording and directing); and post-production (editing, basic effects, marketing and distribution). Must be an NMS major or receive to register for this course. Course fee.

Prerequisite: NMS Major

NMS 242 Client-Based Production

2 cr

Gain hands-on experience producing media projects for real-world clients. Those enrolled join the college's student-run production company, Bitworks, and coordinate with clients to set project goals, schedules, and deliverables. Skills in project management, team coordination, and client communication are developed alongside technical proficiencies in areas like video production, photography, editing, graphic design, web development, branding, and social media management.

Prerequisite: NMS-101

NMS 244 Video Editing

3 cr

An intermediate course in film editing. Students analyze and practice techniques in narrative, documentary, commercial and experimental editing. All footage will be provided.

NMS 245 15-Second Video Editing

3 cr

Build expertise in short-form video editing by creating 15- to 120-second sequences tailored for social media, advertising, and promotional content. Develop skills in transitions, sound editing, and motion graphics through project-based challenges. Explore collaborative workflows, industry standards, and client-based approaches, culminating in a demo reel that showcases your editing range and creativity.

Prerequisite: NMS-101 or NMS-140

NMS 253 Environmental Media

THM6

3 cr

Conflicts over water resources, petroculture, food safety, pollution, and climate change are some of the biggest challenges humans face, and environmental humanities address these concerns through analyses of representations, rhetorics, and media production. Through examination of readings, videos, documentary film, advertisements, television programs, video games, and social media, students will explore representations of environments and environmental issues from an intersectional perspective, developing textual analysis skills and building a foundation of theory from the environmental humanities. Students will also produce a piece of media with an environmental message.

NMS 270 Podcast Studio

3 cr

Engage in in-depth analysis of exemplary podcasts, explore storytelling structures, and apply hands-on production techniques to create polished, professional audio experiences.

Prerequisite: NMS-101

NMS 271 Introduction to Documentary

3 cr

Explore the art of documentary filmmaking through a survey of seminal films and hands-on exercises. Engage in critical viewings and produce short-form projects focusing on skills like filming interviews, editing archival footage, and dramatizing locations. Throughout the semester, develop strategies, techniques, and workflows foundational to the documentary arts.

Prerequisite: NMS-101 or NMS-140

NMS 275 Experimental Media

3 cr

Produce a collaborative experimental short film using various visual mediums, including digital and analog video, multi-cam studio recording, digital and VR animation, and sound design. Explore creative possibilities while working together to bring innovative ideas to life.

Prerequisite: NMS-101 or NMS-140

NMS 280 Topics in New Media Studies

2-3 cr

Selected topics in new media innovations, issues and effects. May be taken more than once for credit. Students may need to buy materials for their projects, see course fees.

NMS 300 Media Theory and Culture

THM3

3 cr

Survey key benchmarks and texts in the history of media and new media technologies, while also introducing critical readings of 20th and 21st century media culture, both from the theoretical field of media studies and the creative works of artists, filmmakers and writers.

NMS 302 Film Genres and Directors

3 cr

Explore a specific film genre or director's body of work through film viewings and analysis of themes, techniques, and cinematic styles. Through readings, film screenings, and critical writing, develop theoretical frameworks and sharpen analytical skills in film criticism to experience a deeper understanding of film as an art form.

NMS 310 Social Media Management

THM4

3 cr

Examine how businesses, organizations, and individuals use social media platforms to share their messages and stand out in a crowded media landscape. Learn how to craft social media management plans and marketing strategies with a focus on storytelling and design.

Prerequisite: Sophomore Standing

NMS 315 Advanced Animation

3 cr

Expand fluency in the art of animation by critically engaging with animation theories and applying them in practice. Focus on creating animated shorts while revisiting historical milestones and honing skills in a chosen style. This hands-on approach fosters creativity and deepens understanding of animation as a dynamic medium. Course fee.

Prerequisite: NMS-210

NMS 325 Streaming Studio

3 cr

Gain hands-on training in live streaming production within a professional studio and on location. Create, produce, and manage live shows using industry-standard equipment and software. Emphasize key skills like camera work, audio mixing, live editing, and remote streaming setups. Through practical exercises, develop technical proficiency and creative strategies to design engaging live content while mastering workflows essential to successful live broadcasting.

Prerequisite: NMS-101 or NMS-140

NMS 330 Game Design II

3 cr

Video game development is a burgeoning creative field that requires collaboration of experts with a variety of skill sets. Students on this course will build on their experiences in Game Design I to undertake a more thorough and developed game design. Students will develop a game design document and partial game walk-through outlining the game's mechanics and story and will create art assets for the game using Adobe Illustrator. The endgame of the course is for each student to demonstrate proof of concept for their game in a studio-style pitch/presentation using the assets they developed. No coding experience is required for the course, no coding will be required on the course.

Prerequisite: NMS-230

NMS 340 Advanced Film Production

3 cr

Craft short films from concept to completion in an advanced studio setting. Emphasize project management, narrative techniques, and cooperative dynamics while each participant helms a film under 8 minutes, rotating through key production roles within a quartet team. This progression from preproduction to post-production creates portfolio pieces that showcase industry preparedness and creative

NMS 342 Client Project Management

2 cr

Gain hands-on experience managing media projects for real-world clients and learn what it takes to lead, coordinate and market a production company. Those enrolled in this advanced follow-up to

Client-Based Production set goals, talk to clients, craft marketing strategies, and direct content for the college's student-run production company, Bitworks.

Prerequisite: NMS-242

NMS 343 Sports Media Studio

3 cr

Gain hands-on experience producing media and marketing content for Alma College athletic teams. Students work directly with coaches and staff to create live broadcasts, promotional videos, and social media campaigns, building practical skills in sports media production, storytelling, and digital marketing. This advanced course emphasizes professional workflows, audience engagement, and the fast-paced nature of sports media, preparing students for careers in sports advertising, broadcasting, and the broader sports industry.

Prerequisite: NMS-101 or NMS-140

NMS 347 Postworlds

3 cr

An advanced course in visual effects and speculative design. VFX techniques are used to create possible and impossible worlds that critique modern culture. Students shoot original footage and make use of stock libraries.

Prerequisite: NMS-101 and NMS-140

NMS 380 Topics in New Media Studies

2-3 cr

Selected topics in new media innovations, issues, and effects.

Prerequisite: NMS-101 or instructor approval

NMS 381 Advanced Documentary

2 cr

Combines theory, history and practice, exploring documentary video production through an overview of the history and major styles, field exercises, screening, discussion and critique. Participating in collaborative work with classmates, students are exposed to a range of storytelling, production, aesthetic, and artistic issues. Hands-on demonstrations, field exercises, screenings, readings, lectures and discussion prepare students to produce short documentary videos.

NMS 382 Advanced Mixing and Mastering

2 cr

In-depth, project-oriented class that explores the creative and technical issues involved in multitrack sound editing, mixing and mastering. Topics include mono, stereo and multichannel audio formats, understanding mixing consoles, signal flow and busses, sound analysis and metering plug-ins, controlling levels and gain, advanced EQ, compression and "brick wall" limiting, automation and time-based effects. Tools include popular DAW applications Logic Pro, Pro Tools and Reason.

Prerequisite: NMS-160

NMS 385 New Media Studies Internship

1-8 cr

Internship in the field of New Media Studies.

NMS 450 Senior Studio

3 cr

This capstone studio serves as a bridge between work at Alma and a professional post-graduate career. Students will independently plan and execute a capstone project that applies their specialized skills in new media to a challenging problem. The goal is to develop projects with lasting impacts while deepening the students' own methods of design. The course also addresses how these skills might fit into post-graduate life through resume and portfolio workshops, as well as seminar discussions about the new media's role in the world. At the end of the term, capstones are assessed by a panel of faculty and industry judges at a public exhibition, which the class organizes and hosts.

Prerequisite: Senior Standing

NMS 480 Topics in New Media Studies

2-3 cr

Selected topics in new media innovations, issues, and effects.

Prerequisite: NMS-101 or instructor permission

NMS 500 Studies Senior Thesis

2-3 cr

Development and completion of original scholarly/creative work. May be applied, interpretive, critical, empirical or theoretical. Required for Departmental honors. Requires Senior Standing and permission.

Prerequisite: Senior Standing and Departmental permission.

Nursing (NUR)

Bachelor of Science in Nursing

Ninety-four credits, including:

1. Professional Sequence (50 credits): NUR-102, 220, 300, 302, 310, 350, 351, 360, 452, 453, 454, 455, 482 and 500.
2. Integrative Science Core (38 credits): BIO-121 or KHS-131; BIO-308; CHM-115; KHS-231*, 232*, 301, 328*; KHS-310 or 311, and KHS-340* or 341*; PSY-120 and 331.
3. Required Cognates (6 credits):
 - a. Three credits from: MTH-116, KHS-230 or PSY-220;
 - b. Three credits from: PHL-103, 126, 229, 240, or BIO-210.

*Grade Requirements

To remain in good standing in the nursing program, a grade of "C" or higher must be earned in the following major required courses (listed above): KHS-231, KHS-232, KHS-328, KHS-340 or KHS-341.

Admission to the Nursing Program

First-year students

Students interested in the Nursing major must register as a Pre-Nursing major during registration for their first semester at Alma College. In the Fall of their 2nd year, Pre-Nursing students will apply for admission to the Nursing Program provided they meet the following minimal requirements:

- a. Cumulative GPA of 2.75 or higher;
- b. Grades of C or higher in all courses noted with *;
- c. Minimum grade of B in NUR-102.

Each nursing cohort is limited to 32 students per year. Academic success in KHS-131/BIO-121, CHM-115, KHS-231, or other program courses/criteria, may also be considered to rank candidates for admission. The Nursing Program Director will evaluate each candidate's application and make all final decisions concerning student ranking and final acceptance into the Nursing Program.

Transfer students

Students transferring from another institution who wish to apply to the Nursing Program must also register as a Pre-Nursing student, and Pre-Nursing major, during registration for their first semester at Alma College. Direct admission to the Nursing Program may also occur for select transfer students, at the sole discretion of Nursing Program Director. Transfer to the Nursing program will require students to meet the same minimal academic requirements listed for First-year students; however, acceptance to the program will be restricted to available positions within a specific cohort year. The Nursing Program Director will make all final decisions concerning transfer acceptance into the Nursing Program.

Additional Program Requirements and Considerations for Nursing:

1. All nursing students must maintain a cumulative minimum GPA of 2.5 and a minimum GPA of 3.0 in nursing (NUR) courses. Dropping below these standards at any time may jeopardize your position in the Nursing Program cohort for that year.
2. All nursing students must earn a minimum grade of BC in every

nursing (NUR) course to progress in the program.

3. Any nursing student earning a C or below in a nursing course (NUR) must repeat the course to remain in the program and progress. The student may continue to take courses in the same tier while waiting to repeat the course.
4. A student may repeat no more than 6 credits of coursework designated with NUR. If a student fails to achieve a grade of BC or above in a second NUR course, or a grade of BC or above in a repeated nursing course, the student will not be allowed to remain in the Alma College nursing program.

NUR 102 Integrative Seminar 1

3 cr

Provides an in-depth exploration of the development of healthcare professions, historical perspectives, and contemporary issues shaping the field. Students will examine key milestones in the evolution of healthcare professions, with a focus on nursing, medicine, and allied health. This course will cover the objectives and goals of Healthy People 2030, while emphasizing the importance of spirituality in healthcare, and the importance of diversity, equity, and inclusion in nursing.

NUR 220 Introduction to Professional Nursing

3 cr

This course introduces the essential roles, responsibilities, and concepts that form the foundation of nursing practice. Students will explore various nursing roles—caregiver, advocate, manager, and coordinator—while gaining insight into the philosophical and theoretical frameworks that guide ethical decision-making, social justice, and reflective practice in healthcare settings. Through lectures, discussions, activities, and case studies, students will engage in critical thinking and develop a comprehensive understanding of nursing as a self-regulating profession. Course fee.

Prerequisite: NUR-102

NUR 280 Topics in Nursing

1-3 cr

Special topics in Nursing

NUR 300 Nursing Skills & Assessment

3 cr

This course provides the theoretical foundation for nursing therapeutics, including clinical skills and EMR, to ensure safe, effective, and patient-centered care. It emphasizes privacy, confidentiality, and cultural sensitivity, while introducing quality and safety standards. Students practice these competencies in a lab setting, conducting comprehensive health histories and physical assessments for well-adult patients. The course integrates spiritual, sociocultural, psychological, and physical dimensions into patient care, promoting holistic, evidence-based nursing practice.

Prerequisite: KHS-231, KHS-232, KHS-328, KHS-340

NUR 300C Nursing Skills & Assessment Clinical

1 cr

This laboratory course focuses on validating essential nursing skills required for safe patient care. Students demonstrate competency in core psychomotor and clinical skills through structured skill validations and objective assessment. Emphasis is placed on accuracy, safety, professional communication, and adherence to established standards of practice. Successful completion of this lab requires demonstration of competency in all required skills; remediation and repeat validation may be required if competency is not initially achieved. Pass/Fail Only.

NUR 302 Integrative Seminar 2

WI

1 cr

Examine how the healthcare delivery system, health informatics, integrative health practices and social determinants of health impact nursing practice. Employ concepts of patient-centered care, communication, collaboration, critical thinking, health promotion, evidence-based practice (EBP), and professional leadership into nursing practice.

Prerequisite: NUR-220

NUR 310 Fundamentals Nursing Practice

3 cr

Provides the theoretical base for scientific inquiry/nursing process (assessment, diagnosis, planning, interventions and evaluation) to provide patient-centered care. Quality and safety standards/competencies of nursing practice are employed for the fundamental care of a patient within the framework of health care delivery systems. Nursing Fundamental Practicum Students practice learned assessment, fundamental and nursing skills in community and hospital settings under the supervision of clinical instructors. Leadership and system thinking concepts are expanded and practiced in the clinical setting. Laboratory/practicum. Course fee.

Prerequisite: NUR-220

NUR 310C Fundamentals Nursing Practice Clinical

1 cr

Students practice learned fundamental theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings. Pass/Fail Only.

NUR 350 Medical Surgical Nursing I With Practicum

3 cr

Provides the theoretical base to prepare professional nurses to administer safe-effective, evidenced based practice care for the medical-surgical adult patient. The interrelationship of the patient, health, nursing and the environment are explored and practiced within a medical-surgical setting. Quality and safety standards/competencies of nursing practice are employed for the adult medical-surgical population within the framework of health care delivery systems. Laboratory/practicum. Course fee.

Prerequisite: NUR-310

NUR 350C Medical Surgical Nursing I With Practicum Clinical

1 cr

Students practice learned theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings. Pass/Fail Only.

NUR 351 Mental Health Nursing with Practicum

3 cr

Provides the theoretical base to prepare professional nurses to become competent to care for the mental health needs of the patient. The interrelationship of the patient, health, nursing and the environment are explored and practiced within the mental health setting. Quality and safety standards/competencies of nursing practice for the adult mental health population are explored and practiced within the framework of health care delivery systems. Laboratory/practicum. Course fee.

NUR 351C Mental Health Nursing with Practicum Clinical

1 cr

Students practice learned theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings. Pass/Fail Only.

NUR 360M Global Health Nursing

GCA

3 cr

Provides the theoretical base to prepare professional nurses to become competent to care for the needs of patients from a designated community. The interrelationship of the patient, health, nursing and the environment are explored and practiced within a designated community setting. This course explores the health outcomes of a group of individuals, including the distribution of such outcomes within the group. The outcomes of mortality, quality of life and disparities will be examined through the reciprocal determinant factors of health care, individual behavior, social environment, physical environment, and genomics. The student will examine how policies and programs impact outcomes and determinants within current urban and global health care settings. Laboratory/practicum.

Prerequisite: NUR-310

NUR 360CM Global Health Nursing Clinical

1 cr

Students practice learned theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings. Pass/Fail Only.

NUR 380 Nursing Seminar

1-3 cr

Topics in Nursing decided by instructor

NUR 452 Medical Surgical Nursing II W Practicum

3 cr

Provides the theoretical base to prepare professional nurses to become competent to care for critical care needs of the adult and geriatric population. The interrelationship of the patient, health, nursing and the environment are explored and practiced within the critical care setting. Quality and safety standards/competencies of nursing practice for the adult critical care population are explored and practiced within the framework of health care delivery systems. Laboratory/practicum. Course fee.

NUR 452C Medical Surgical Nursing II W Practicum Clinical

1 cr

Students practice learned theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings. Pass/Fail Only.

NUR 453 Pediatric Nursing

3 cr

Provides the theoretical base to prepare professional nurses to become competent to care for children and their families. The interrelationship of the patient, health, nursing and the environment are explored and practiced within the critical care setting. Quality and safety competencies of nursing practice for the pediatric population are explored and practiced within the framework of health care delivery systems. Laboratory/practicum. Course fee.

Prerequisite: NUR-350

NUR 453C Pediatric Nursing Clinical

1 cr

Students practice learned pediatric theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings pertaining to children. Pass/Fail Only.

NUR 454 Community Health Nursing W Practicum

3 cr

Provides the theoretical base to prepare professional nurses to become competent to care for patients in the community. The interrelationship of the patient, health, nursing and the environment are explored within the community setting. Quality and safety standards/competencies of nursing practice are explored for care of the patient in the community within the framework of health care delivery systems. Laboratory/practicum. Course fee.

Prerequisite: NUR-350 and NUR-351

NUR 454C Community Health Nursing W Practicum Clinical

1 cr

Students practice learned theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in health clinical settings. Pass/Fail Only.

NUR 455 Maternal Health Nursing

3 cr

Provides the theoretical base to prepare nursing students to become competent to care for childbearing women. The interrelationship of the patient, health, nursing and environment are explored within the maternal health setting. Quality and safety competencies of nursing practices for the maternal health population are explored within the

framework of health care delivery systems. Laboratory/practicum.
Course fee.

NUR 455C Maternal Health Nursing Clinical

1 cr

Students practice learned obstetrical theories in clinical settings under the supervision of clinical instructors. Leadership and systems thinking concepts are further expanded and practiced in women's health clinical settings. Pass/Fail Only.

NUR 480 Nursing Seminar

1-3 cr

Topics in Nursing decided by instructor

NUR 482 Capstone Seminar

WI

3 cr

Identify nursing practice, management and leadership responsibilities within a changing healthcare environment. Examine organizational, leadership, and research theories in relation to strategic planning, patient care, quality management, fiscal management, and human relations skills. Discuss the necessity of continuing education and the need for a nursing role in public policy, in relation to contemporary healthcare issues. Explore professional areas of future role development and practice possibilities. Prepare for licensure and professional practice.

Prerequisite: NUR-302 and NUR-454

NUR 500M Clinical Immersion Practicum

1 cr

Provides for the transition of the student nurse to a professional baccalaureate nurse within an interdisciplinary, population-based model of care. Practicum is an immersion experience in which the student has the opportunity to practice the role of an entry-level baccalaureate nurse under the guidance of faculty and the direct supervision of an experienced clinician. Seminars are held to examine issues facing entry-level practitioners, such as ethical challenges, role transition, team building, conflict management, delegation, population-based care and community outreach, along with cost and quality outcomes in health care. Course fee.

Prerequisite: NUR-452 and NUR-454

NUR 500CM Clinical Immersion Practicum Clinical

3 cr

Clinical component required for noted course. Pass/Fail Only.

Philosophy (PHL)

Philosophy Major Requirements

Twenty-seven credits, which must include:

1. 12 credits in PHL credits taken at the upper-level (numbered 200 level or above);
2. 12 additional credits in PHL credits, not already taken;
3. Three credits of PHL-500.

Philosophy Minor Requirements

Eighteen credits taken in PHL, which must include 12 credits at the 200 level or above.

PHL 102 Issues in Philosophy

AH EXP2

3 cr

Exploration of issues in and development of individual positions in respect to basic philosophical questions.

PHL 103 Critical Thinking

AH EXP2

3 cr

Introduction to Logic. Elementary semantics, common fallacies in inference, the analysis of arguments, and the logic of induction and deduction. Emphasis primarily on reasoning as it occurs in everyday contexts.

PHL 111 Ancient Philosophy

AH EXP2

3 cr

Explores ancient answers to some of the most important questions in the humanities: what does it mean to be human? What is our relationship to the natural world and to the divine? What are the ideal political arrangements? How do we become good human beings, and why should we be virtuous? What is the basic structure of reality? Focuses mostly on ancient Greek philosophy.

PHL 112 Modern Philosophy

AH THM1

3 cr

Survey of major ideas which have helped shape the Western tradition and the thinking of contemporary people. The time period includes the Renaissance to the 20th century.

PHL 120 Feminist Philosophy

AH EXP4

3 cr

Examination of recent feminist studies in philosophy and religion. Focus on method, style, approach and arguments of the feminist critique.

PHL 126 Ethics: Right and Wrong

AH EXP4

3 cr

Exploration of moral values, nature of moral judgments, and bases for moral decisions. Practice in decision making. Study of controversial ethical dilemmas related to business, the environment, medicine, imprisonment, the government, and forgiveness. Focus on person as individual and member of society.

PHL 127 Ethics in Social Media

AH EXP4

3 cr

Apply critical analysis skills to important 21st-century issues on the internet, including privacy, polarization, misinformation, echo chambers, threats to democracy, friendships online versus offline, the attention economy, cancel culture, shaming, and caring for others online. Practice these skills on test cases.

PHL 131 Introduction to Political Theory

AH

3 cr

Introduction to normative political theory, both historical and contemporary. Includes analysis of central concepts of politics such as power, freedom, justice, democracy and equality. Explore key modern ideologies, such as liberalism, conservatism, socialism, fascism and political Islam. (Cross-listed as POL-131)

PHL 180 Topics in Philosophy

AH

3 cr

Selected topics in philosophy.

PHL 212 The Enlightenment

AH

3 cr

Examination of key concepts developed in the 18th-century movement known as the Enlightenment. Major themes might include the importance of political freedom, the nature of rationality, democratic governance, the rights of women, distrust of authority, and scientific thinking.

PHL 215 Philosophy of Religion

AH

3 cr

Examination of classical and contemporary issues in the philosophy of religion such as arguments for and against the existence of God, religious language, the relation between faith and reason, the evidential value of religious claims, and the relationship between morality and religion.

PHL 216 Existentialism

AH THM1 THM5

3 cr

Examination, evaluation, and discussion of selected subjects – the individual, freedom, responsibility, anxiety, hope, death, meaning of life – as treated in both philosophical essays and works of fiction. Major authors may include Nietzsche, Kierkegaard, Jean-Paul Sartre, Simone de Beauvoir, Martin Heidegger, and Leo Tolstoy.

PHL 217 Asian Philosophy

AH THM1 THM2 3 cr

Exploration of the history and thought of the major philosophical traditions of Asia, including Buddhism, Confucianism, and Taoism.

PHL 224 Aesthetics

AH THM3 THM7 3 cr

Exploration of values pertaining to the arts. Study of principal aesthetic views, major issues in the philosophy of art, application to various art works and nature of aesthetic judgments, creative activity and aesthetic qualities of experience.

PHL 225 Environmental Ethics

AH THM3 THM4 THM6 3 cr

Examination of conceptual and moral issues about nature and humans' relationship to it. Focus is on both theoretical frameworks about humans' responsibility for the environment and on contemporary environmental controversies, such as global warming, population issues, pollution, global justice and sustainability.

PHL 227 Ethics and Business

AH THM3 THM4 3 cr

Exploration of the nature of moral values, moral judgments and ethical decisions. Analysis of selected issues in modern business. Test cases used for practice in decision making. Especially pertinent for those planning business careers but designed for all interested students.

PHL 228 Ethics and Law

AH THM3 THM4 3 cr

Exploration of conceptual and ethical issues in the making and administration of law. Introduction to ethical theory. Study of such topics as criminals' rights, justification of punishment, death penalty, nature of legal responsibility, extent of justifiable government interference with freedom and relation between law and morality. Especially pertinent for Pre-Law students but designed for all interested students.

PHL 229 Ethics and Medicine

AH THM3 THM4 THM5 3 cr

Exploration of the nature of moral values, moral judgments and ethical decisions. Analysis of selected issues in medicine and other health fields. Test cases used for practice in decision-making. Especially pertinent for those planning careers in health professions but designed for all interested students.

PHL 230 Religion and Science

AH THM2 THM3 THM5 3 cr

Examination of the relationship between religion and science. Emphasis will be placed on the different contributions that science and religion make to an individual human life, to society, and to our knowledge of the world. The most important topic of the course is whether there is a conflict between religion and science and whether it is possible for the two to co-exist.

PHL 232 Ancient Political Thought

AH THM1 3 cr

Exploration of key ideas in ancient and medieval political thought. The works of Socrates, Plato, Aristotle, the Stoics, Epicurus, Augustine and Aquinas are considered. Key questions addressed include: Is democracy superior to rule by the enlightened few? Are humans by nature political creatures? What is the proper relation between the individual and the state? Is the state a natural entity?

PHL 234 Modern Political Thought

AH THM4 3 cr

Analysis of selected original works of Machiavelli, Hobbes, Locke, Rousseau, the American founders, Bentham, Mill, Marx and Nietzsche. Emphasis on relevance to contemporary political thought and issues.

PHL 235 Ethics and Education

AH 3 cr

Examination of ethical issues and education. Emphasis on the ethics of education, such as the very idea of compulsory education; and ethics

in education, such as the tension between moral education and indoctrination, and issues pertaining to multiculturalism, gender and disability. Of special interest to students planning to become elementary or secondary teachers, but accessible to all interested students.

PHL 236 Contemporary Political Thought

AH THM4 3 cr

This course explores contemporary debates in political theory regarding justice, democracy, freedom, equality, and rights. Do contemporary democracies distribute resources and opportunities fairly? Do they treat all citizens equally? Are they sufficiently democratic? Is capitalism a just economic system? Does it support or undermine democracy, freedom, and equality?

Prerequisite: POL-131

PHL 240 Love, Sex, and Gender

AH THM2 THM3 THM5 3 cr

Examination of issues related to love, sex, and gender. Issues include the nature of sexual desire, love, sexual orientation, and gender. Discussions will focus on exclusivity in romantic relationships, sex without love, homosexuality, trans issues, gender identity, selling sex, pornography, and more.

PHL 242 Philosophy of Sport

AH THM2 3 cr

Examination of conceptual and moral issues that arise in sport. Conceptual issues include the relationship between play, games and sport, and the nature of competition. Moral issues include the role of sport in education, sportspersonship, performance-enhancing drugs, violence in sport, hunting and gender equity in sport.

PHL 280 Topics in Philosophy

AH 3 cr

Selected topics in philosophy in such areas as historical studies, epistemology, metaphysics and values. May be taken more than once if different topic.

PHL 303 Symbolic Logic

AH NS3 QR 3 cr

In-depth examination of symbolic logic, including propositional logic, predicate logic, and logic of identity. Study translation into notation, test validity by such methods as deduction, truth tables and truth trees. Examination of logical concepts: logical truth, consistency, equivalence, interpretations and the properties of relations.

PHL 305 Philosophy of Science

AH WI THM3 3 cr

Analysis of the nature of science. What justifies the view that science is the most objective source of human knowledge? What makes a scientific theory true? Examination of rival accounts of science and their relation to actual practice of scientists. Especially pertinent to science majors but designed for all interested students. Extensive background not required.

PHL 325 Humanity and Nature

AH THM4 THM6 THM7 3 cr

Exploration of the relationship between humanity and the natural world. Topics include the beauty of the natural world, the justification of conservation efforts, the divine or spiritual aspect of the natural world, whether it is more important to benefit humanity or save the environment, humanity's relationship to other animals, the nature of the Anthropocene, and more.

PHL 326 Virtue Ethics

AH WI THM2 THM3 3 cr

In-depth examination of "virtue ethics." Is virtue based on reason alone, or does it also involve feeling and sentiment? What kind of character traits should I try to cultivate? What makes my life meaningful? Why should I be virtuous? What kind of person should I try to become? Consideration of such virtues as courage, justice, and wisdom. These questions are explored from the perspectives of Aristotle, Epicurus, and various Stoic philosophers such as Marcus Aurelius.

PHL 347 Mind and Consciousness

AH THM5 3 cr
 Exploration of the nature of mind and consciousness. Consideration of such views as whether the mind can exist independently of the body and whether the mind is dependent on or identical to the brain. Emphasis will be placed on the consequences of these views on beliefs about whether immortality or free will exist. Discussions will highlight insights from contemporary neuroscience.

PHL 349 Marxism and Capitalism

AH THM2 THM4 3 cr
 Consideration of two important intellectual traditions: Marxism and capitalism. Emphasis will be placed on readings from Adam Smith, Karl Marx, G.A. Cohen, Robert Nozick, Ayn Rand, and others. Topics will include whether communism is possible, whether capitalism is sustainable, problems with and solutions for radical wealth inequality, and the place of government intervention in markets and society. *Prerequisite: Sophomore Standing*

PHL 380 Seminar

AH 3 cr
 Selected topics in philosophy which arise in various fields. Generally interdisciplinary, team-taught. Reading, discussion, papers and critiques. Subjects and credits to be announced.
Prerequisite: Instructor permission

PHL 500 Senior Thesis

AH 3 cr
 Individual research culminating in preparation of a major paper and Departmental oral examination.
Prerequisite: Departmental permission

Physics (PHY)

Physics Major Requirements

Forty-three credits, which must include:

1. Core courses (32 credits): PHY-121, 122, 212, 221, 312, 321, 323, 421.
2. Elective (3 credits): any PHY course numbered 300 or above.
3. Required Cognates (16 credits): MTH-121, 122, 210, 211.
4. MTH-310 and a programming course (e.g., CSC-115 or 116) are highly recommended.

Physics Specialization Teaching Major (7-12)

Forty-three credits, which must include:

1. PHY-121, 122, 212, 221, 312, 321, 323, and 421;
2. EGR-130;
3. Required Cognates (16 credits): MTH-121, 122, 210, and 211;
4. Successful completion of the requirements of the Science Teaching Major (5-12) and the Secondary Education Major.
5. A grade point average of at least 2.5 in Physics Specialization Teaching Major (7-12) courses.

Physics Specialization Teaching Minor (7-12)

Thirty credits, which must include:

1. PHY121, 122, 212, 221, 321 and 323;
2. Required Cognates (12 credits): MTH-121, 122, and 210;
3. Successful completion of the requirements of the Science Teaching Major (5-12) and the Secondary Education Major.
4. A grade point average of at least 2.5 in Physics Specialization Teaching Minor (7-12) courses.

Physics Minor Requirements

Twenty-seven credits, which must include:

1. PHY-121, 122, 212, and 221;
2. Eight credits from Physics and Astronomy courses numbered 200 or above;
3. Required Cognates (8 credits): MTH-121 and 122

Note: Most upper-level PHY courses also require MTH-210.

Departmental Honors in Physics

Completion of all requirements for the major, at least a 3.5 GPA in the major, and completion of a senior thesis (PHY-500) including a paper and oral presentation of honors quality.

PHY 112 General Physics I

NS2 3 cr
 First half of an introductory course in physics. Uses algebra and trigonometry but not calculus. Appropriate for students who plan no further study in physics. Topics include one and two-dimensional mechanics, vectors, forces, work, energy, momentum, torque, and equilibrium. Many class examples relate to human body functions such as muscles and motion. Students cannot receive credit for both PHY-112 and PHY-121. Laboratory. Course fee
Prerequisite: Sophomore Standing and MTH-112, MTH-113, or MTH-121.

PHY 112L General Physics I Laboratory

1 cr
 Laboratory component required for noted course.

PHY 113 General Physics II

NS2 3 cr
 Second half of an introductory course in physics. Uses algebra and trigonometry but not calculus. Appropriate for students who plan no further study in physics. Topics include oscillations, waves, sound, optics, electricity and magnetism. Many class examples relate to human body functions such as hearing, vision, and electric signaling. Students cannot receive credit for both PHY-113 and PHY-122. Laboratory. Course fee.
Prerequisite: PHY-112

PHY 113L General Physics II Laboratory

1 cr
 Laboratory component required for noted course.

PHY 121 Introduction to Physics I

NS2 EXP3 3 cr
 Calculus-based treatment of one and two-dimensional mechanics, vectors, force, work, energy, momentum, torque, and static equilibrium. Offered every Fall. Laboratory. Course fee.
Prerequisite: MTH-113 or MTH-121 previously or concurrently

PHY 121L Introduction to Physics I Laboratory

1 cr
 Laboratory component required for noted course.

PHY 122 Introduction to Physics II

NS2 QR 3 cr
 Continuation of PHY-121. Topics include oscillations and waves, sound, electricity and magnetism, optics, and basic thermodynamics. Offered every Winter. Laboratory. Course fee.
Prerequisite: PHY-121

PHY 122L Introduction to Physics II Laboratory

1 cr
 Laboratory component required for noted course.

PHY 130 Physics for Decision Makers

NS2 3 cr
 This course introduces fundamental physics concepts through real-world issues that shape policy, technology, and the environment. Students explore topics such as energy, climate change, nuclear security, and emerging technologies, focusing on understanding and evaluating scientific claims rather than advanced mathematics. Through discussions, data analysis, and practical activities, students develop scientific literacy, critical thinking, and communication skills, enabling them to make informed decisions and engage thoughtfully in public discourse on science-related societal challenges.

PHY 130L Physics for Decision Makers

1 cr
 Laboratory component required for noted course.

PHY 212 Mechanical Systems

NS2 3 cr
 Rotational kinematics, dynamics, and advanced static equilibrium; fluids and introduction to thermal physics. Offered Winter, Even-numbered years)
Prerequisite: PHY-121 and MTH-121

PHY 221 Modern Physics

NS2 WI QR 3 cr
 Survey of fundamentals of modern physics; special relativity, atomic physics, nuclear physics, and introductory quantum wave mechanics. Laboratory. Course fee.
Prerequisite: PHY-121

PHY 221L Modern Physics Laboratory

1 cr
 Laboratory component required for noted course.

PHY 225 Astrophysics

NS2 3 cr
 Study of the physics of stellar constituents of the universe: distances, magnitudes, colors, spectra and motions of stars; multiple and variable stars; stellar structure and evolution, star clusters, structure and rotation of the Milky Way galaxy, galaxies and cosmology.
Prerequisite: PHY-221

PHY 312 Dynamics

NS2 3 cr
 Study of motion. Includes particle dynamics, central force motion, rigid body motion, Lagrange's and Hamilton's equations of motion. (Offered Fall, Even-numbered years)
Prerequisite: PHY-122 and MTH-211

PHY 321 Intermediate Electromagnetism

NS2 3 cr
 Study of electric and magnetic fields. Introduces and uses vector calculus. Includes integral and differential forms of Maxwell's equations; electric, scalar and vector potentials; radiation; and electric and magnetic properties of matter. (Offered Fall, Odd numbered years)
Prerequisite: PHY-122 and MTH-210

PHY 323 Thermal/Statistical Physics

NS2 3 cr
 Study of thermodynamics as seen and derived from a quantum statistics perspective. Includes first, second and third laws of thermodynamics; kinetic theory of gases; Maxwell-Boltzman statistics; thermal equilibrium; and fluctuations and irreversibility. (Offered Winter, Odd numbered years)
Prerequisite: PHY-122, PHY-221 and MTH-210

PHY 333 Optics

NS2 3 cr
 Study of geometric and physical optics. Includes mirror and lens systems, apertures and stops, photography, fiber optics, Fourier techniques, interference and diffraction, limits of resolution, optical image processing, electro optics, lasers and holography. Laboratory. Course fee.
Prerequisite: PHY-122

PHY 333L Optics Laboratory

1 cr
 Laboratory component required for noted course.

PHY 380 Topics in Physics

NS2 3 cr
 Study of topic of current or historical importance chosen by instructor.
Prerequisite: May require instructor permission

PHY 421 Quantum Mechanics

NS2 3 cr
 Study of wave and matrix mechanics, the harmonic oscillator, the hydrogen atom and angular momentum and spin. (Offered Winter, Even-numbered years)

Prerequisite: PHY-221, MTH-210; MTH-310 is recommended

PHY 431 Advanced Electromagnetism

3 cr
 Study of electromagnetic waves and systems. Includes transmission lines, waveguides, antennas, and microwave networks. (Offered Winter, Even-numbered years.)
Prerequisite: PHY-321

PHY 480 Topics in Physics

NS2 3 cr
 Study of topic of current or historical importance chosen by instructor.
Prerequisite: Departmental permission

PHY 500 Senior Thesis

NS2 2-3 cr
 Planned program of research performed on campus or as part of research group at major university or national laboratory. Course fee.
Prerequisite: Instructor permission

Political Science (POL)

Political Science Major Requirements

Twenty-seven credits, which must include:

1. POL-401;
2. Twenty-four additional credits taken in POL- a minimum of fifteen credits must be taken at the upper-level (200 or above).
3. Note: No more than six credits from POL-226/POL-227 and POL-328/POL-329 may count toward the major.

Political Science Minor Requirements

Eighteen credits in Political Science, which must include:

A minimum of fifteen 200+ credits in POL. No more than six credits from POL-226/POL-227 and POL-328/POL-329 may count toward the minor.

Departmental Honors in Political Science

A major GPA of 3.5 or higher is required, along with the completion and public presentation of a senior thesis.

POL 101 The American Political System

SO EXP2 3 cr
 Examine how American political institutions govern. Encounter their historical formation and how its legacy matters for contemporary political problems. Primary focus on federal government with some attention to state and local examples.

POL 111 Forming More Perfect Unions

SO EXP4 3 cr
 To "Form a more perfect Union," political leaders build institutions by creating constitutions. These institutions are attempts to solve immediate problems but also give rise to new problems, and no one set of institutions is appropriate for all contexts or moments in time. In this course students will participate in simulations of the Constitutional Convention of 1787, the Mexican Revolution, and the building of post-apartheid South Africa. By examining three "constitutional moments" in depth, students will better understand the dynamics, aspirations, and limitations of constitutions, preparing them to explore the political system of any country, past or present.

POL 121 World Conflicts and Problems

SO EXP2 3 cr
 Examines a selection of world conflicts in terms of their causes and prospects for war, control or settlement. Explores world-wide problems, needs and efforts among states to deal cooperatively. (INR)

POL 131 Modern Ideals and Ideologies

SO EXP2 3 cr
 This course examines the most influential ideologies of the modern era including liberalism, conservatism, socialism, communism, fascism, and liberation ideologies. (Cross-listed as PHL-131) (THE)

POL 141 Intro to Public Mgt and Policy Analysis

SO 3 cr
 Study of leadership and administration in public organization, including relationship between bureaucracy and the executive, judicial and legislative branches; development of organizational theory; policymaking and implementation process; bureaucratic ethics; and reconciliation of democracy and bureaucracy. Recommended for those considering careers in public service or jobs affected by public policy. (APP)

POL 180 Topics in Political Science

SO 3 cr
 Examines special political subjects in both the foreign/international and American realms.

POL 206 Moot Court

SO WI THM3 THM4 3 cr
 Learn current issues in U.S. constitutional law by engaging with the American Moot Court Association's yearly case problem. Practice your public speaking by simulating argument before the United States Supreme Court, then compete in a tournament. This course encourages deep understanding of specific constitutional issues, iterative argument revision, and persuasive justification of legal interpretations.

POL 210 Political Science Statistics

SO NS3 QR THM4 THM6 3 cr
 Statistics is the dominant methodological approach in social science, including political science. In this course, students will learn the mathematical underpinnings and software for multivariate regression analysis, the dominant methodology in the field (among others). Political Science Statistics will use some of the most prominent databases in the field as the foundation for instruction and teach students basic and advanced Microsoft Excel techniques as well.
Prerequisite: One POL course or transfer equivalent

POL 213 Politics of Remembering

SO EXP4 3 cr
 The course explores public monuments as political symbols. Questions such as who decides what will be publicly memorialized, what should be memorialized, and what should be done if attitudes about the memorial change will be discussed. Students will be challenged to contemplate historical and contemporary debates on how political symbols are remembered. This course explores these topics through simulations and individual projects of contemporary efforts to change specific monuments.

POL 214 Latin American Politics

SO GCA THM4 3 cr
 Latin America has been a focus of political scientists for decades, as these 19 diverse countries share many features and yet also represent a wide array of political experiences and trajectories, including: communist revolutions; bloody civil wars; military dictatorships known for massive human rights violations; presidential autogolpes; and, yes, even stable democracy. In this course, students will explore the dynamics that shape Latin America through simulations of the Mexican Revolution and post-dictatorship Argentina and research projects highlighting particular aspects of politics in the region.

POL 217 Democracy's Slow Death

SO 3 cr
 By any number of measures, democracy is slowly retreating around the world as authoritarianism increasingly succeeds in limiting the power and impact of voters. While historically these efforts were dramatic and abrupt, whether violent insurrections, sudden autogolpes, or military coup d'etats, in recent years has become much more likely for democracies to be slowly hollowed out from within by democratically-elected leaders. This course explores the decline of democracy around the world. Students will develop a dataset of political institutions to test a range of theories attempting to explain this decline. Some background in statistics is recommended but not required. (CMP)

POL 219 Who Cares About the Earth?

SO QR THM6 3 cr
 In this course, students will analyze data on how countries perform on a wide range of environmental issues, including exploring economic, demographic, and political factors. Students will explore possible reasons for the wide variation of individual countries' responses to addressing climate change through the use of data analysis and in-depth case studies about why countries are addressing climate change or failing to.

POL 221 Analysis of International Politics

SO 3 cr
 Study roles of the state, international and non-state actors in international politics; theories of conflict, conflict control and resolution; and prospects for world community.

POL 225 International Law and Organizations

SO THM1 THM4 THM6 3 cr
 Analyzes historical evolution of international law, its purposes, principles and relationship to the international arena. Study of international organizations and their impact on international legal order.

POL 226 Model United Nations "A"

SO 2 cr
 Preparation to represent an assigned country at a Model UN competition through examination of current international issues and UN organizational structures and processes. Course fee. (INR)

POL 227 Model United Nations "B"

SO 2 cr
 Preparation to represent an assigned country at a Model UN competition through examination of current international issues and UN organizational structures and processes.

POL 231 American Political Thought

SO 3 cr
 Explores American political thought from the founding to the present. Key themes considered include majority rule and minority rights, participatory versus elite theories of democracy, the tensions between democracy, freedom and equality, and civil disobedience.

POL 232 Ancient Political Thought

SO THM1 3 cr
 Exploration of key ideas in ancient and medieval political thought. The works of Socrates, Plato, Aristotle, the Stoics, Epicurus, Augustine and Aquinas are considered. Key questions addressed include: Is democracy superior to rule by the enlightened few? Are humans by nature political creatures? What is the proper relation between the individual and the state? Is the state a natural entity?

POL 233 Current Controversies U.S. Politics

SO 3 cr
 Examine the ethical and empirical dimensions of some current political controversies in the U.S., such as the death penalty, gay marriage, torture, terrorism, affirmative action and euthanasia. Introduction to relevant concepts in ethical theory, law, political philosophy and empirical inquiry in order to provide the framework to think knowledgeably and critically about these issues.

POL 234 Modern Political Thought

SO THM1 THM4 3 cr
 Analysis of selected original works of Machiavelli, Hobbes, Locke, Rousseau, the American founders, Bentham, Mill, Marx and Nietzsche. Emphasis on relevance to contemporary political thought and issues.

POL 235 American Legal System

SO THM3 THM4 3 cr
 How does the American legal system operate? This course explores the politics of the judiciary by examining the development, structure, operations of law and the courts. Topics include struggles over legal interpretation, the relation between the judiciary and other branches, and the day-to-day discretionary authority exercised by agents of the court.

POL 236 Contemporary Political Thought

SO THM4 3 cr
 This course explores contemporary debates in political theory regarding justice, democracy, freedom, equality, and rights. Do contemporary democracies distribute resources and opportunities fairly? Do they treat all citizens equally? Are they sufficiently democratic? Is capitalism a just economic system? Does it support or undermine democracy, freedom and equality?
Prerequisite: POL-131

POL 241 U.S. Presidential Elections

SO 3 cr
 Studies the links of elections and the media, campaign fundraising, electoral strategies, the role of the media in shaping campaigns, and the impact on public policy; offered especially in national election years, where the election can serve as a laboratory to test theories.

POL 242 Comparative Environmental Health Policy

SO 3 cr
 Comparative analysis of the environmental-health policy process. Emphasis on applied research related to current government or non-governmental organization projects or concerns.

POL 243 Public Opinion and Voting

SO THM3 3 cr
 The course explores how Americans form their political beliefs and values, and how those beliefs and values influence their voting behavior. The impact of ideology, economic class, ethnicity, religion, and education are considered.

POL 245 The Political Experience

SO 3 cr
 Explores nature of elective and administrative politics in state and local governments. Integrates cognitive and experiential learning. Includes field trips and interviews with state/local leaders in government, interest groups and media.

POL 280 Topics in Political Science

SO 2-3 cr
 Variable topics in political analysis.

POL 305 Constitutional Law

SO THM4 3 cr
 Case law study of the Supreme Court's interpretations of U.S. Constitution in the areas of the governmental structures and processes and civil rights and liberties. Different approaches to interpreting the Constitution are also considered.

POL 306 Advanced Moot Court

SO 3 cr
 Returning moot court students will become familiar with contemporary topics in U.S. constitutional law by engaging with the American Moot Court Association's yearly case problem and its two constitutional questions. Students will be responsible for reading and briefing the relevant caselaw in preparation for exercises simulating arguments before the United States Supreme Court. As returners, students in POL-306 will additionally assume some pedagogical responsibility for introducing students enrolled in POL-206 to moot court.
Prerequisite: POL-206

POL 316 Democracy's Slow Death

SO QR THM4 3 cr
 By any number of measures, democracy is slowly retreating around the world as authoritarianism increasingly succeeds in limiting the power and impact of voters. While historically these efforts were dramatic and abrupt, whether violent insurrections, sudden autogolpes, or military coup d'etats, in recent years it has become much more likely for democracies to be slowly hollowed out from within by democratically elected leaders. Students will develop a rich understanding of democratic decline through a simulation of Weimar Germany. In addition, students will develop critical analytical skills through a survey of the rapidly growing empirical literature on democratic decline. Finally, students will advance their data-analytic

skills through the creation and analysis, using Microsoft Excel, of a statistical dataset exploring political, economic, demographic, sociological, and other factors connected to democratic decline. (CMP)
Prerequisite: POL-210; or any one POL course and one statistics course (KHS-230, MTH-116, 242; DAT-115; PSY-220).

POL 317 Politics of Fear and Hate

SO THM4 3 cr
 Populist parties, particularly on the political right, have been increasingly successful in recent elections, particularly in Europe and the Americas. Scholars increasingly seek to explain the appeal of these anti-elite, often xenophobic, parties in recent years in so many different countries. In this course, students will build a dataset and, using linear regression analysis in Microsoft Excel, test a range of hypotheses to better understand this increasingly common political phenomenon.
Prerequisite: POL-210; any one POL and one statistics course (KHS-230, MTH-116, 242; DAT-115; PSY-220).

POL 325 U.S. Foreign Policy

SO 3 cr
 Study of goals of American foreign policy and U.S. role in changing world; structure, processes and politics of foreign policymaking; and U.S. foreign policy since end of WWII. Analysis of selected current U.S. foreign policy concerns.

POL 326 U.S. National Security Policy

SO 3 cr
 Analyzes emergence and evolution of post- WWII national security state. Assesses impact of changing international environment on conceptions of "national security."

POL 328 Advanced Model UN "A"

SO 2 cr
 Examine in detail the functioning of the central bodies of the UN community, including the General Assembly, Security Council, ECOSOC and specialized agencies. Also address the role of nongovernmental organizations, regional and subregional organizations and individual states. Only four credits may count toward the major.
Prerequisite: POL-226 and POL-227

POL 329 Advanced Model UN "B"

SO 2 cr
 Examine in detail the functioning of the central bodies of the UN community, including the General Assembly, Security Council, ECOSOC and specialized agencies. Also address the role of nongovernmental organizations, regional and subregional organizations and individual states. Only four credits may count toward the major. Course fee.
Prerequisite: POL-226 and POL-227

POL 341 Public Policy Analysis

SO 3 cr
 Study of policy process, particularly policy evaluation. Focuses on such policies as educational, environmental, economic and social welfare. Emphasis on learning evaluation methodologies through application to current public policy issues.

POL 345 Public Administration History and Theory

SO 3 cr
 Study of the development of modern public bureaucracies and the relationship of bureaucracy and other governmental institutions, particularly through analysis of original works on public administration from Woodrow Wilson and Max Weber to more recent commentaries.

POL 380 Topics and Problems in Political Science

SO 3 cr
 Courses on special political subjects in both the foreign/international and American realms.

POL 385 Political Science Practicum

1-3 cr

Placements in government, political institutions and related agencies may be made available by the Department or may be arranged by students in consultation with the Department.

POL 401 Senior Seminar

SO 3 cr

Comprehensive capstone study of politics within the context of a distinct theme in political science.

POL 500 Senior Thesis

SO 3 cr

Under supervision, the student formulates a project topic or research program, conducts research, then prepares and publicly presents a senior thesis. Required for Departmental honors.

Prerequisite: Departmental permission

Psychology (PSY)

Includes Neuroscience Major

Psychology Major Requirements

Twenty-eight credits, which must include:

1. PSY-120 or 121;
2. PSY-201 or 203;
3. PSY-212 or 276 or 336;
4. PSY-220, 225, 314, 331, 421;
5. PSY-305 or 308 or 310;
6. Two elective credits in PSY, not already taken.
7. Students working toward post-graduate study should work with a psychology department member to do independent research, practical experiences, internships, and an empirical thesis.

Psychology Minor Requirements

Eighteen credits from Psychology courses (PSY).

Neuroscience Major Requirements (NSC)

Forty-four credits, which must include:

1. Core Content: PSY-120 or 121; 201, 220, and 356; BIO-121; CHM-115; PSY-203 or BIO-319 or KHS-340; BIO-207 or KHS-231; two credits of research (PSY-399, 499, or 500, or any upper-level independent research); three additional credits from Psychology.
2. At least 12 credits (nine consisting of upper-level courses) from the following: BIO-204, 221, 320, 360, 361, BCM-321, CHM-223, 224; ECN-314, KHS-403, MTH-121, PHL-229, PHY-112 or 121, or other courses approved by the program director.
3. Potential majors are strongly recommended to consult with the program director to develop a more specialized program of courses. Additional courses may be required for certain graduate schools and different courses are recommended dependent on interests in specific subfields of neuroscience (i.e. computational, behavioral, cognitive, developmental, social, and molecular).

Departmental Honors in Psychology

Students are required to have a 3.5 or higher GPA in their psychology classes, an empirical thesis, and a successful thesis defense.

Program Note: It is Alma College policy that only six credits of coursework may be repeated between two majors, or a major and minor combination. PSY and NSC majors should work closely with the PSY department and Registrar's Office to determine if it is possible to double major.

PSY 120 Foundations of Psychology

NS1 EXP2 3 cr

Learn why people think, feel, and act as they do. Explore the mind, brain, and body connection. Only one of PSY-120 or PSY-121 is

permitted to count toward a Psychology major and total credits earned to graduate.

PSY 121 Introduction to Psychology

NS1 3 cr

Survey of major areas of psychology: learning, perception and cognition, human development, individual differences, social psychology and abnormal psychology. Only one of PSY-120 or PSY-121 is permitted to count toward a Psychology major and total credits earned to graduate. Laboratory. Course fee.

PSY 201 Physiological Psychology

NS1 THM5 3 cr

Study of physiological processes and structures underlying behavior and development. Laboratory techniques for investigation of electrical and chemical brain activity. Laboratory. Course fee.

Prerequisite: PSY-120 or PSY-121

PSY 203 Psychopharmacology

NS1 THM3 3 cr

Examination of the behavioral and biological effects of psychoactive substances with an emphasis on how drugs affect the brain. This course will explore legal and illegal substances as well as pharmaceuticals used in the treatment of mental disorders.

PSY 212 Personality I

NS1 3 cr

Comparison of major conceptual and research strategies in study of personality: psychoanalytic tradition, trait and social learning theories, and humanistic, cognitive and biological approaches. Introduction to psychological testing and journal literature.

Prerequisite: PSY-120 or PSY-121

PSY 220 Statistics

NS3 QR 3 cr

Introduction to descriptive and inferential statistics, and factorial analysis of variance. Appropriate for both life and social sciences.

Prerequisite: PSY-120 and PSY-121

PSY 225 Research Methods

NS1 WI 3 cr

Development of skills in conduct and assessment of experimental and field research and of sensitivity to ethical and social aspects of scientific inquiry. For students in psychology, education and business. Course fee.

Prerequisite: PSY-220

PSY 234 Psychological Problems of Childhood

NS1 2 cr

The nature, consequences, causes, treatment, and prevention of problems psychologically affecting children and adolescents (such as child abuse, delinquency, depression, drug abuse, hyperactivity, and poverty). Service-learning component.

Prerequisite: PSY-120 or PSY-121

PSY 242 Sport Psychology

NS1THM5 3 cr

An exploration and application of psychological theories, techniques, and exercises that can be used to enhance performance in a wide variety of domains, mainly athletics. Students will gain hands on experience with using techniques such as goal setting, imagery, and motivational interviewing to manage performer anxiety, stress, and injury recovery. Systemic factors that can influence performer well-being such as cultures of toughness, and gender discrimination will also be explored.

Prerequisite: PSY-120 or PSY-121

PSY 244 Positive Psychology

NS1 3 cr

Positive Psychology is the scientific study of happiness, strengths, and optimal functioning. The field also involves applications to counseling, education, business, and other areas.

Prerequisite: PSY-120 or PSY-121

PSY 245 Human Sexuality

NS1 THM2 3 cr

Examination of variety and origins of human sexuality from physiological, evolutionary and social-learning perspectives.

Prerequisite: PSY-120 or PSY-121

PSY 260 Psychology of Aging

NS1 2 cr

Examination of current psychological theory and research concerning physical changes, cognition, personality and psychopathology in the later years of life. Service-learning component included in the course.

Prerequisite: PSY-120 or PSY-121

PSY 275 Psychological Testing and Measurement

NS1 2 cr

Consideration of principles involved in construction, use and evaluation of tests of ability and personality. Application to such issues as personnel selection, sex differences and therapeutic practice.

Emphasis on actual clinical data, ethical and value issues in test construction and use.

Prerequisite: PSY-120 or PSY-121

PSY 276 Industrial Organization

NS1 3 cr

Students will examine human behavior in the workplace from a scientist-practitioner view and learn how applied psychology research can improve hiring, management, and development decisions in business.

PSY 280 Topics in Psychology

NS1 2-3 cr

Exploration of areas of mutual interest to instructor and students. Topics include depression, stress and coping, clinical interviewing and counseling, psychological problems of childhood, and neurological disorders. May be taken more than once for credit.

Prerequisite: PSY-120 or PSY-121

PSY 305 Learning

NS1 THM1 3 cr

In-depth study of methods of learning among human and non-human species.

Prerequisite: PSY-120 or PSY-121

PSY 308 Science of Emotion

NS1 3 cr

This course integrates perspectives from a variety of sub-topics within psychology. It will examine the function, expression, and regulation of emotion. The evolutionary origins and the biological processes involved in emotion will be examined. We will discuss the interrelationship of emotion, cognition, and culture. Topics will include discrete emotions such as anger, love, and happiness.

Prerequisite: PSY-120 or PSY-121

PSY 310 Cognition

NS1 3 cr

Consideration of the psychology of thinking: input, processing, storage and retrieval of information. Also explores categorization, concept formation, mental structure, language, reasoning, and problem solving.

Prerequisite: Three courses in PSY or Instructor permission

PSY 312 Personality II

NS1 3 cr

In-depth examination of personality theory and of major controversial issues in contemporary literature.

Prerequisite: PSY-212

PSY 314 Psychopathology

NS1 THM1 3 cr

Examination of characteristics causes and treatment of such disorders as depression, schizophrenia and stress-related illness. Discussion of social and ethical issues. Application of material to actual case histories.

Prerequisite: PSY-120 or PSY-121

PSY 315 Clinical Interviewing

NS1 3 cr

Students develop skills in a mainstream approach to clinical interviewing, including applications to counseling with kids, resistant adults, couples and families, trauma survivors, and people from diverse backgrounds.

Prerequisite: PSY-120 or PSY-121

PSY 331 Developmental Psychology

NS1 THM5 3 cr

Consideration of current theoretical perspectives and research on attachment, language acquisition, cognitive and moral development. Attention to role of ideological and philosophical commitments in study of development.

Prerequisite: PSY-120 or PSY-121

PSY 336 Social Psychology

NS1 3 cr

Consideration of current theory and research on person perception, social influence, attitude formation, intergroup relations, altruism and aggression. Emphasis on ethical and social issues in conduct and application of social psychological research.

Prerequisite: PSY-120 or PSY-121; SOC-101

PSY 356 Neuroscience Seminar

NS1 3 cr

In-depth examination of neuronal mechanisms involved in complex animal and human behaviors and of the methodology used in molecular, cognitive, clinical, behavioral, and developmental neuroscience. Course fee.

Prerequisite: PSY-201 or PSY-203, or instructor permission

PSY 385 Psychology Practicum

2-3 cr

Participation in community institutions, agencies, schools and businesses combined with individual faculty supervision to allow students to apply concepts and locate literature relevant to their own experiences.

Prerequisite: PSY-120 or PSY-121

PSY 390 Clinical Field Experience

NS1 3 cr

Participation in programs in hospitals, agencies, schools, businesses or the judicial system. Faculty and on-site professionals provide intensive supervision. Students improve their abilities to apply concepts, principles and techniques and reflect on significant conceptual, ethical and personal aspects of the experience in written papers and oral discussions.

Prerequisite: PSY-120 or PSY-121; PSY-212; PSY-280; and 314; or instructor permission

PSY 404 Sensation and Perception

NS 3 cr

Study of sensory processes and their relationship to human perception. Concentrates on vision and audition with attention to recent theoretical approaches to perception. Laboratory. Course fee.

Prerequisite: PSY-120 or PSY-121, PSY-220, and PSY-225 or instructor permission

PSY 421 Senior Seminar

NS1 2 cr

Students will build knowledge and skills needed to pursue their next steps following degree completion including applying to graduate school and seeking employment. Students will work with the instructor to plan successful entry into the workforce. Professional and career development will serve as the foundation for this course.

Prerequisite: PSY-120 or PSY-121; PSY-220; PSY-225; and at least Junior Standing

PSY 500 Senior Thesis

NS1 2-3 cr

Development and conduct of original, independent, empirical investigation. Required for Departmental honors.

Prerequisite: PSY-499, Senior Standing and instructor permission

Public Health (PBH)

Public Health Minor Requirements

Twenty-four credits, which must include:

1. Core (12 cr): KHS-330, 331, 430, and ENV-205.
2. Quantitative Reasoning requirement: KHS-230
3. One course chosen from the following: KHS-265, 301; HST-271; PSY-203; SOC-234; PHL-229; POL-141.
4. Program Considerations: A research methods course or independent research (e.g. KHS-311/399/499 or PSY-225) is strongly encouraged. Enrollment in additional elective courses is also highly encouraged.

PBH 385 Public Health Practicum

3 cr

Practicum in the field of Public Health. Requires Instructor Permission.

Religious Studies (REL)

Religious Studies Minor Requirements*Eighteen credits, which must include:*

1. REL-100;
2. Fifteen additional credits taken in REL; up to six credits may be substituted within the elective area, including: PHL-217; HST-230, 251, 331; SPN-271, 371.

REL 100 What Is Religion?

AH EXP2 3 cr

Develop an understanding of religion as a human phenomenon, focusing on three interrelated questions: What is religion? How can we study religion? And of course, Why?

REL 150 The Good Life

AH EXP4 3 cr

Explore the classical ethical question of how we should live, including the way diverse global cultures have shaped these questions. Students will focus on visions of a "good life" offered by modern social movements that have struggled for life amidst structures of premature death, covering topics such as Black Lives Matter, Water is Life, Reproductive Justice, Disability Justice, and more.

REL 180 Topics in ReligionAH 2-3 cr
Special topics in religious studies. May be repeated for distinct topics.**REL 202 Religion, Gender, and Sexuality**

AH GCA WI THM1 THM2 THM5 3 cr

Examine how gender and sexuality interact with the study of religion, centering intersectional analyses of religion as it is lived in the everyday lives of people across the gender spectrum and across religious traditions.

REL 204 Religion and Community Engagement

AH THM1 THM2 THM4 3 cr

Explore the complex relationships between religion and the public good, including the historical and contemporary ways faith communities have engaged in community and social responsibility.

REL 207 Religion in America

AH GCA THM1 THM2 THM4 3 cr

Examine the history of religion in the North America, including how a variety of religious traditions and movements have interacted with key

themes in American studies including: race, ethnicity, gender/sexuality, nation, diaspora, imperialism, borders, indigeneity, and more.

REL 208 Race and Religion

AH GCA THM1 THM2 THM4 3 cr

This course will examine the complex interaction between race and religion, two critical aspects of the history and present of life in North America and globally. In this course, we will ask: What is race, racism, racialization, and religion? How have meanings about religion informed the histories of race and racism? And how has race and racism impacted religious beliefs and practices? This interdisciplinary course will also consider how race and religion overlap with other interrelated issues like gender/sexuality, migration/borders, indigeneity/ethnicity, settler colonialism, incarceration and policing, capitalism, nationalism, environmentalism, and more.

REL 209 Religion and the Civil Rights Movement

AH GCA THM1 THM2 THM4 3 cr

Examines the ties between religion and the long Black freedom struggle, with a focus on the United States during the 1960s and 70s as well as overlapping political movements of the era including women's rights, gay liberation, the Cold War, and global anti-colonialism. Covers major figures, events, and ideas of the era, as well as a variety of Black religious traditions from Christianity, Islam, and Buddhism to the diasporic traditions of Orisha devotion.

REL 230 Religion and Science

AH 3 cr

Examination of the relationship between religion and science through both historical and contemporary issues.

REL 232 Religion and Environmental Justice

AH THM2 THM4 THM6 3 cr

Exploring environmental ethics with a specific focus on the diverse role of religious ideas, practices, and institutions in how humans have approached their relationship to the so-called "natural world" and have addressed the crises of anthropogenic climate change.

REL 280 Topics in Religion

AH 2-3 cr

Special topics in Religious Studies.

REL 303 Queer Religion

AH THM1 THM2 3 cr

Examining the growing field of queer and trans studies in religion, students will study both historical and contemporary struggles for queer & trans life, including grassroots organizations and modern cultural movements that have sparked imaginings of otherwise possibilities for love, kinship, and belonging.

*Prerequisite: One course in REL or WGS.***REL 380 Topics in Religion**

AH 2-3 cr

Selected topics in religious studies. May be taken more than once.

Only two registrations count toward a Major in Religious Studies.

*Prerequisite: One Religious Studies course or instructor permission***REL 385 Religious Studies Practicum**

1-3 cr

Practicum in the field of Religious Studies.

REL 400 Theory and Method in Religious Studies

AH 3 cr

Upper-level seminar addresses current issues in the field of religious studies (such as postmodernism, postcolonialism, disability studies, and/or queer theory), approaching these issues with a variety of disciplinary methods (such as historical, theological, phenomenological, ethical, and/or anthropological).

Prerequisite: REL-100 or Junior Standing

Sport Leadership & Coaching (SLC)

Coaching Minor Requirements

Eighteen credits, to include:

1. Core (15 cr): SLC-121, 231, 232, BUS-230 and PSY-242;
2. Elective (3 cr) selected from: SLC-385, ECL-221, KHS-224.

SLC 121 Introduction to Coaching

3 cr

This course introduces students to the various responsibilities of a coach and the skills needed to successfully work with athletes in team settings. Throughout the course, students will explore various coaching models and leadership styles. Intentionally develop and apply tools to meaningfully engage with athletes from diverse backgrounds and cultural traditions. Students will also learn effective communication, problem-solving, and decision-making skills.

SLC 140 Recruitment and PR in Athletics

3 cr

This course is focused on the role of recruitment in building a sports program and ways to build support for a sports program in communities and organizations. Students will learn the rules that govern recruitment at different levels of play, explore the ethical and social responsibilities coaches have related to recruitment, and develop recruitment strategies that facilitate a healthy team culture. Students will also learn strategies for building relationships with fans and communities.

SLC 231 Team Leadership

3 cr

This course is designed to deepen students' understanding of the theories of coaching and athlete development. Students will develop their own coaching philosophy and leadership style that facilitates meaningful engagement with athletes from diverse backgrounds and cultural traditions. Students will also practice effective communication, problem-solving, and decision-making skills.

SLC 232 Diversity and Culture in Athletics

3 cr

Evaluates diversity in sport organizations. Provide students with an understanding of how differences impact the organizational experience for coaches and front offices.

SLC 241 Strength and Conditioning for Coaches

3 cr

This course presents strength and conditioning theory and practice. Designed primarily for students interested in coaching athletes, the course explores different training models and their utilization and the injury prevention effects of appropriate training.

SLC 385 Practicum

2–8 cr

Designed for off- or on-campus placement combining academic orientation with practical preprofessional experience. Maximum of eight credits.

Sociology (SOC)

Sociology Major Requirements

Twenty-seven credits, which must include:

1. Core: SOC-301, 302, and either SOC-385 or 500.
2. At least two of the following courses:
 - SOC-222 Sociology of Gender
 - SOC-223 Sociology of Race
 - SOC-225 Conflict and Class
 - SOC-227 Sociology of Sexualities
3. An additional twelve credits of upper-level SOC electives.

Sociology Program Notes:

- For students who are interested in sociology, it is suggested to take SOC-101 as one of their Explore courses, although SOC-101 is not required for the major.
- If scheduling allows, students should consider taking SOC-301 and SOC-302 in their junior year particularly if they intend to pursue research (SOC-500) in their senior year. For those who are considering the sociology practicum, there is more flexibility in the timing of those courses although it is still suggested to take them when they are available.
- Department Honors are given to those who: a) successfully complete SOC-500 and b) have a minimum of a 3.5 GPA in Sociology.

Sociology Minor Requirements

Eighteen credits of Sociology, which must include SOC-301 and 302.

SOC 101 Principles of Sociology

SO EXP4

3 cr

Identify sociology as a tool to widen perspective and understanding, employ basic sociological concepts in the observance of social behavior, and identify the basic social institutions and their functions.

SOC 141 Social Problems

SO

3 cr

Examination, evaluation and discussion of contemporary social problems providing theoretical orientations and analytical skills to understand their complexities and ramifications. For example: poverty, health issues, crime and ways of dealing with crime.

SOC 180 Topics in Sociology

SO

1-3 cr

Investigation of a selected topic. May be taken only once for credit toward the ANT major.

SOC 220 Sociology of Family

SO THM1 THM2 THM3

3 cr

Examines how family life is structured by broader social, political, and economic changes. Analysis organized historically around clan, lineage, nuclear and post-nuclear family structures. Contemporary family problems are also studied. Fall Term.

SOC 222 Sociology of Gender

SO THM2 THM5

3 cr

Explores the social construction of gender and the myriad ways gender influences individuals, interpersonal relationships, popular culture, sexuality, race, social class, the life course, and social institutions such as work and family

SOC 223 Sociology of Race

SO THM2 THM3 THM5

3 cr

Examines racism in American society; dominant-subordinate group relations with particular emphasis on African Americans, Native Americans, Latinos, Asian Americans and White Ethnics; political, economic, social and cultural consequences.

SOC 225 Conflict and Class

SO THM2 THM4

3 cr

Examination of class and its consequences. Topics may include ideology, the middle class, social movements, and social order (e.g., war and peace). Class intersects with gender and race issues. Cross-cultural settings will be examined.

SOC 226 The Color of Justice

SO THM2

3 cr

Uses socio-historical and cultural awareness to investigate connections between the history of Jim Crow, courtroom relationships, spaces of incarceration, race, family, and community.

Prerequisite: SOC-101

SOC 227 Sociology of Sexualities

SO THM2 THM5

3 cr

Examine the social construction of sexualities. Learn how sexualities are shaped by broader structures such as political, religious, educational, and familial institutions. Gain insight into how sexualities are linked with power. Explore LGBTQ experiences across contexts.

SOC 229 Population Dynamics

SO 3 cr
Population dynamics mirror plate tectonics - they move slowly but are very powerful. They influence societies and individuals and are international in scope. One needs to understand them to better view social problems.
Prerequisite: SOC-101

SOC 234 Aging and Health Institutions

SO THM4 THM5 3 cr
Examines key concepts, main theories, and important substantive issues related to aging and health institutions from a sociological perspective. Among the central issues explored are gender and racial inequality in aging, as well as social institutions connected to aging and public policy.

SOC 243 Crime and Deviance

SO THM2 THM3 THM4 3 cr
Exploration of how crime and deviance are socially constructed categories, vary across time and space, and are shaped by cultural norms and beliefs. By applying key sociological perspectives, this course will examine crime and deviance through lenses of social stability, conflict, power and inequality.

SOC 280 Topics in Sociology

SO 2-3 cr
Examines special subjects in Sociology.
Prerequisite: SOC-101

SOC 301 Methods of Social Research

SO 3 cr
Fundamentals of basic principles, logic, and procedures of social research. Examines survey, unobtrusive, and qualitative methodologies as well as research ethics and policy.
Prerequisite: 12 credits from SOC

SOC 302 Social Theory

SO 3 cr
This course involves the posing and answering of questions about the nature of self and of social life. It investigates the fundamental issues of how social order is maintained and conversely, how social conflict and change occur. The first half of the course focuses on the work of classical social theorists such as Karl Marx, Max Weber, Emile Durkheim, W.E.B. DuBois, and Charlotte Perkins Gilman. In the second half, we examine the work of contemporary theorists and schools of thought such as Erving Goffman, Symbolic Interactionism, Critical Race Theory, Intersectionality, Feminism, and Post-Modernism.
Prerequisite: 12 credits from SOC

SOC 380 Topics in Sociology

SO 2-3 cr
Examines special subjects in Sociology.
Prerequisite: SOC-101

SOC 385 Sociology Practicum

1-8 cr
Participation in community institutions, agencies, schools, and business with individual faculty supervision. Applications of concepts through experience. About 11-14 hours of field work per week for each of the four credits. Includes paper report.
Prerequisite: Departmental permission

SOC 500 Sociology-Senior Thesis

SO 2-3 cr
Designed for senior Sociology majors with the consent of the Department. Program of empirical and theoretical research.
Prerequisite: Departmental permission

Spanish (SPN)

To satisfy foreign language proficiency within the Core Curriculum, students must reach the novice high proficiency level. This requires the completion of SPN-111 and SPN-112, respectively. Please reach out to the World Languages and Culture Department (WLC) for academic considerations such as proficiency tests and international student waivers of this foreign language requirement within the core.

Spanish Major Requirements

Twenty-eight credits, which must include:

1. A minimum of 28 credits of SPN, at least 14 credits must be completed at the 300 level.
2. Three credits of an introduction to cultural analysis: WLC-102, 103, 104, or WGS-102.
3. Three credits of English cognate chosen from ECL-201, 202, 220, or 320.
4. A minimum of one semester of international study in a Spanish-speaking country approved by the department.
5. Language Proficiency must be demonstrated by taking an approved external proficiency exam. Majors are expected to perform at the American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Low proficiency level as averaged across the four skills (listening, speaking, reading, writing).
6. Students will write and defend, in open forum, an acceptable paper of moderate length reflecting on their study of Spanish, study abroad experience and how the role of language and culture combines with the mission of a liberal arts education.

Spanish Minor Requirements

Eighteen credits in SPN, which must include a minimum of six credits taken at the 300-level or above.

Program Considerations:

- Enrollment in a literary or cultural analysis course (ECL-120, 220, NMS-300, WLC-102, 103, 104) is highly recommended
- A semester or Spring Term of study in a Spanish-speaking country is highly recommended.
- Spanish minors are encouraged to apply for the Global Seal of Biliteracy. The required proficiency may be demonstrated by taking the STAMP4s exam.

Departmental Honors in World Languages and Cultures

1. 3.5 GPA in all classes applied to the major.
2. Perform beyond minimum requirements on the Language Exam portion of the Departmental Comprehensive Evaluation.
3. Presenting a senior thesis of honors caliber.

Advanced Credit in a second language may be earned by:

1. Scoring at the 3 level or higher on the Advanced Placement (AP) exam.
2. Successful completion of International Baccalaureate (IB) exams taken at the Higher Level (HL) with earned scores of (5) or above or earning a minimum score of (5) for the National Foreign Language Examination.

SPN 105 Spanish Language and Culture

2 cr
Novice-level course designed to practice communication, emphasizing conversational skills at the ACTFL Novice-Mid to high proficiency levels. NOTE: Open to students who have had two to three years of high school credit, or a college SPN course at the 100 level.

SPN 109 Spanish Reading Club

1 cr
Guided reading at the 100, 200, or 300 levels. 100 level texts are generally written for language learners at the intermediate-low level and 200 level texts at the intermediate-high level. 300 level texts are written for native speakers, be they literary works, popular novels, or

peer-reviewed articles. May be repeated for credit. Pass/Fail graded course.

SPN 111 Beginning Spanish I

3 cr

Beginning level language acquisition course which includes an introduction to present and past tenses and high frequency vocabulary in all four skills (listening, speaking, reading, writing) at the ACTFL Novice-Mid proficiency level. Course is designed for students with limited previous Spanish language experience. **NOTE:** Students who have completed 3 or more years of high school Spanish study are not eligible to enroll at this level. Course fee.

SPN 112 Beginning Spanish II

AH

3 cr

Intensive course for beginners in Spanish. Primary objective: to help students begin early and meaningful communication in Spanish by acquiring necessary basic skills. Emphasizes all four language skills: reading, writing, and especially listening and speaking. Secondary objective: to provide insight into Hispanic culture and society through readings, discussions and activities. **NOTE:** Students who have earned credit for three or more years of high school Spanish may not enroll in SPN-111 or 112. (Offered by Alma Programs Abroad only)

SPN 150 Cultural Topics

AH

2 cr

Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Novice-high/Intermediate-Low proficiency levels. Topics vary; may be repeated for credit.

NOTE: Open to students who have taken up to three years of high school Spanish. Course fee.

SPN 151 Hispanic Geography and Peoples

AH EXP2

3 cr

Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Novice-high/Intermediate-low proficiency levels. This is a high-beginner course, appropriate for students who have completed 1-year of high school Spanish. Course fee.

SPN 152 Hispanic Heroes and Anti-heroes

AH

3 cr

Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Novice-high/Intermediate-low proficiency levels. This is a high-beginner course, appropriate for students who have completed 1-year of high school Spanish. Course fee.

SPN 153 Health, Wellness, and Culture

AH EXP4

3 cr

Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Novice-high/Intermediate-low proficiency levels. This is a high-beginner course, appropriate for students who have completed 1-year of high school Spanish. Course fee.

SPN 185 Service Learning in Spanish

AH

1-3 cr

May be repeated for credit with a maximum of four credits applied toward the major or minor. Requires placement.

SPN 205 Language and Culture I

AH GCA

3 cr

Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Intermediate-low/Intermediate-mid proficiency levels. Significant focus on the past tenses, pronouns, and narrative structures. This is an intermediate-level course, appropriate

for students who have completed 3 or more years of high school Spanish. Course fee.

SPN 207 Spanish for Health Care I

AH THM5

2 cr

Part I of a 2-credit, 2-course sequence that introduces basic vocabulary and cultural information specific to health care contexts in all four skills (listening, speaking, reading, writing). This sequence will not be sufficient for translation or interpretation certification, nor for practicing medicine in Spanish, but it provides basic communication skills that students could build on if they so choose. SPN-207 is not appropriate for students with no previous Spanish experience, nor for students who have the equivalent of SPN-202 or higher. Course fee.

SPN 208 Spanish for Health Care II

AH

2 cr

Part II of a 2-credit, 2-course sequence that introduces basic vocabulary and cultural information specific to health care contexts in all four skills (listening, speaking, reading, writing). This sequence will not be sufficient for translation or interpretation certification, nor for practicing medicine in Spanish, but it provides basic communication skills that students could build on if they so choose. SPN-208 is not appropriate for students with no previous Spanish experience, nor for students who have the equivalent of SPN-203 or higher. Course fee.

SPN 209 Spanish Reading Club

AH

1 cr

Guided reading at the 100, 200, or 300 levels. 100 level texts are generally written for language learners at the intermediate-low level and 200 level texts at the intermediate-high level. 300 level texts are written for native speakers, be they literary works, popular novels, or peer-reviewed articles. May be repeated for credit. Pass/Fail graded course.

SPN 210 Spanish Language and Culture II

AH

3 cr

Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Intermediate-mid/Intermediate-high proficiency levels. Significant focus on the subjunctive, advanced grammatical and rhetorical structures. This is an intermediate-level course, appropriate for students who have completed 3 or more years of high school Spanish. Course fee.

SPN 221 Intermediate Spanish Language I

AH

3 cr

Continuing study of the Spanish language with additional emphasis on reading and writing skills. Study of Hispanic culture and close reading of selected Hispanic texts from various genres. Extensive grammar review, composition, and oral-aural practice. (Alma Programs Abroad)

SPN 222 Intermediate Spanish Lang II

AH

3 cr

Continuing study of the Spanish language with additional emphasis on reading and writing skills. Study of Hispanic culture and close reading of selected Hispanic texts from various genres. Extensive grammar review, composition, and oral-aural practice. (Alma Programs Abroad)

SPN 223 Intermediate Spanish Language III

AH

3 cr

Intermediate level study of Spanish. Designed for students who have completed second year college Spanish but whose language skills need strengthening before they enter upper-level courses while studying abroad. Requires placement into this course. (Alma Programs Abroad)

SPN 224 Intermediate Spanish Language IV

AH

3 cr

Intermediate level study of Spanish. Designed for students who have completed second year college Spanish but whose language skills need strengthening before they enter upper-level courses while studying abroad. Requires placement. (Alma Programs Abroad)

SPN 250 Cultural Topics

AH THM6 2 cr
Topics-based analysis of culture focused on the development of intercultural competencies and language proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Intermediate - Low/Mid proficiency levels. Topics vary; may be repeated for credit. Course fee.

SPN 251 Art, Music, and Dance

AH GCA THM2 3 cr
Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Intermediate-low/Intermediate-mid proficiency levels. This is an intermediate-level course, appropriate for students who have completed 3 or more years of high school Spanish. Course fee.

SPN 253 Sport, Health, and Wellness

AH GCA THM2 THM5 3 cr
Topics-based approach to developing intercultural awareness and increasing Spanish proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Intermediate-low/Intermediate-mid proficiency levels. This is an intermediate-level course, appropriate for students who have completed 3 or more years of high school Spanish. Course fee.

SPN 260 Cultural Topics

AH GCA THM1 3 cr
Topics-based analysis of culture focused on the development of intercultural competencies and language proficiency in all four skills (listening, speaking, reading, writing) at the ACTFL Intermediate-Mid proficiency level. Topics vary; may be repeated for credit. Course fee.

SPN 263 Environment and Health

AH GCA THM5 THM6 3 cr
Explore the interconnectedness of environment, health, and the Spanish-speaking world through a variety of materials (stories, films, articles, music, etc.) aimed at an Intermediate-high Spanish level. Continue to develop Spanish language skills and cultural competencies while considering how questions related to the environment intersect with socio-cultural influences and power structures. This is an intermediate-level course, appropriate for students who have completed AP; IB; 5 or more years of Spanish study prior to college; or 200-level college Spanish. Course fee.

SPN 271 Religion and Culture in Spain

AH GCA THM2 THM3 3 cr
Explore religion and political affiliation as facets of individual and group identity within Hispanic culture. Recognize and analyze how representations of religious identity have both informed and distorted perceptions of otherness in a culture, resulting in works of art, literature, and music that often conflate religious belief and political ideology, appealing to aesthetic, emotional, intellectual, and spiritual sensibilities to persuade their audiences to embrace a particular vision of what it means to be Spanish. This is an intermediate-level course, appropriate for students who have completed AP; IB; 5 or more years of Spanish study prior to college; or 200-level college Spanish. Course fee.

SPN 275 Spanish Civil War in Film and Text

AH GCA THM2 THM3 3 cr
Explore the precursors to the Second Republic and the Civil War in Spain through literary and non-literary texts, music, and film. Consider the roles and intersections of religious, political, and regional identities as determinants of alliance and conflict. Analyze cultural artifacts that provide insight into how the war was perceived by those who experienced it and how it continues to be remembered. This is an intermediate-level course, appropriate for students who have completed AP; IB; 5 or more years of Spanish study prior to college; or 200-level college Spanish. Course fee.

SPN 277 Studies in Hispanic Film

AH GCA THM1 THM2 3 cr
Explore contemporary Hispanic cultural issues through Hispanic film. Learn to watch films critically to understand how technical aspects

combine with storytelling to contribute to deeper understanding. Examine the ways films engage with history and culture while continuing to develop Spanish language skills and cultural competencies. This is an intermediate-level course, appropriate for students who have completed AP; IB; 5 or more years of Spanish study prior to college; or 200-level college Spanish. Course fee.

SPN 281 Conversation

AH 2 cr
Fluency in oral expression developed through extensive class discussion. May include oral reports, summaries of reading and viewing materials, phonetics and pronunciation exercises, colloquial expressions and creative dramatic performance. May be repeated for a total of four credits. (Alma, Alma Programs Abroad)

SPN 309 Spanish Reading Club

AH 1 cr
Guided reading at the 100, 200, or 300 levels. 100 level texts are generally written for language learners at the intermediate-low level and 200 level texts at the intermediate-high level. 300 level texts are written for native speakers, be they literary works, popular novels, or peer-reviewed articles. May be repeated for credit. Pass/Fail graded course.

SPN 311 Spanish Grammar I

AH 3 cr
Intermediate level study of Spanish. Designed for students who have completed third year college Spanish but whose language skills need strengthening as they pursue upper-level courses while studying abroad. Requires placement. (Alma, Alma Programs Abroad)

SPN 312 Spanish Grammar II

AH 3 cr
Intermediate level study of Spanish. Designed for students who have completed third year college Spanish but whose language skills need strengthening as they pursue upper-level courses while studying abroad. Requires placement. (Alma, Alma Programs Abroad)

SPN 313 Spanish Grammar III

AH 3 cr
Advanced level study of Spanish. Designed for students who have completed third year college Spanish and who are pursuing upper-level courses while studying abroad. Requires placement. (Alma Programs Abroad)

SPN 314 Spanish Grammar IV

AH 3 cr
Advanced level study of Spanish. Designed for students who have completed third year college Spanish and who are pursuing upper-level courses while studying abroad. Requires placement. (Alma Programs Abroad)

SPN 315 Advanced Spanish Language

AH 3 cr
Advanced level study of Spanish. Designed for students who have completed third year college Spanish and who are pursuing upper level courses while studying abroad. Requires placement. (Alma Programs Abroad)

SPN 316 Advanced Spanish Language

AH 3 cr
Advanced level study of Spanish. Designed for students who have completed third year college Spanish and who are pursuing upper-level courses while studying abroad. Requires placement. (Alma Programs Abroad)

SPN 321 Advanced Composition in Spanish

AH 3 cr
Advanced composition in a variety of genres aimed at developing skills appropriate to professional as well as academic contexts. (Alma)

SPN 322 Written Expression

AH 3 cr

Development of written skills and creative expression in a variety of genres. Taught in programs abroad. *Prerequisites* is placement during study abroad.

SPN 325 Investigation of Grammar

AH 3 cr
Intensive review of Spanish grammatical theory and structures.

SPN 329 Translation/Interpretation

AH 3 cr
This is a service-learning course in which students will study and practice theories and techniques of translation and interpretation. Students will apply their developing skills to Spanish translations of English-language materials submitted by a variety of community organizations.

SPN 330 Myths, Tales and Legends

AH 3 cr
Reading and discussion of Hispanic folktales and traditional stories. Focus on cultural context and narrative tradition, combined with principles of orality and storytelling.

SPN 331 Introduction to Hispanic Literature

AH 3 cr
Combines practical and theoretical approaches to reading and understanding literature from Spain and the Americas. Study of the attributes of various genres as well as selected works representative of the same. Provides the basic analytical foundation necessary for advanced study and interpretation of Hispanic literature required for the major. (Alma)

SPN 334 Mexican Culture and Civilization

AH 3 cr
Introduction to the society and culture of Mexico from a historical perspective: political, religious and social institutions.

SPN 335 Spanish for Business and Commerce

AH 3 cr
Acquisition of specific commercial concepts and vocabulary in Spanish and the study of worldwide and local economic factors. (Alma, Alma Programs Abroad)

SPN 340 Survey of Hispanic American Literature

AH 3 cr
Reading and discussion of selections from major works of Hispanic American Literature and their relationships to contemporary and subsequent society and culture.

SPN 343 Survey of Spanish Literature

AH 3 cr
Reading and discussions of selections from the major works of Spanish literature and their relationship to contemporary and subsequent society and culture. (Segovia)

SPN 344 Survey of Regional Hispanic Literature

AH 3 cr
Reading and discussion of regional literature, poetry, novels and epics. Themes and authors include pre-Columbian legend, Romanticism, Modernism.

SPN 350 History of Spanish Civilization

AH 3 cr
Introduction to the history of Spanish civilization and culture. Political, religious and social institutions; art, architecture, literature and music. Readings, lectures, compositions and discussions in Spanish. (Alma, Alma Programs in Spain)

SPN 352 Hispanic American Culture & Civilization

AH 3 cr
Introduction to society and culture of contemporary Hispanic-America through examination of political, social, religious and artistic forces. Emphasis on social-political problems and their effect on the United

States. Readings, lectures, compositions and discussions in Spanish. (Alma, Alma Programs in Hispanic-America)

SPN 355 History of Art and Architecture

AH 3 cr
Period and manner studies of the great Spanish and Hispanic American painters. Vision of aesthetic ideas through painting. Architectural concepts and styles. Site visits in Madrid and the surrounding area. (Alma Programs Abroad)

SPN 360 Spanish Literature to 1700

AH 3 cr
Reading and discussion of the major works of the Medieval, Renaissance and Baroque periods in Spain: the Cantar del Mio Cid, La Celestina, Lazarillo de Tormes; poetry of Garcilaso, San Juan de la Cruz, Gongora and Quevedo; drama of Lope de Vega, Tirso de Molina and Calderon. (Alma)

SPN 362 Hispanic-American Literature to 1888

AH THM5 3 cr
Reading and discussion of principal works in Hispanic-American literature from pre-Columbian to Modern: chronicles of the Conquest, poetry of the Colonial period, poetry and prose of Romanticism, Realism and Naturalism. (Alma)

SPN 363 Environment and Health

AH GCA WI THM6 3 cr
Explore the interconnectedness of environment, health, and the Spanish-speaking world through a variety of materials (stories, films, articles, music, etc.) aimed at an Advanced Spanish level. Continue to develop Spanish language skills and cultural competencies while considering how questions related to the environment intersect with socio-cultural influences and power structures. Course fee.

SPN 364 Indigenous Cultures

AH 3 cr
Period, cultural, economic, and ethnic studies of the people of a specific country in Hispanic America. (Alma Programs Abroad)

SPN 370 Spanish Literature Since 1700

AH 3 cr
Reading and discussion of representative works from the Romantic period to the present in Spain: Becquer, Galdos, Unamuno, Ortega y Gasset, Garcia Lorca and others. (Alma, Alma Programs in Spain)

SPN 371 Religion & Culture in Spain

AH GCA WI THM2 THM3 3 cr
The role of religion in Spanish culture including Roman Christianization, the splendor of Al Andalus, anti-clerical movements, and post-war secularism. Students will engage with a variety of literary and non-literary texts to explore one of the foundational pillars of Spanish culture and identity.

SPN 372 Hispanic-American Literature Since 1888

AH 3 cr
Reading and discussion of representative works in Hispanic-American literature from Modernism to the present: Dario, Marti, Borges, Neruda, Paz, Cortazar, Vargas Llosa, Fuentes, Garcia Marquez and others. (Alma, Alma Programs in Hispanic America)

SPN 373 Hispanic-American Theater

AH GCA 3 cr
This course introduces students to select texts and movements of twentieth and twenty-first century Hispanic-American drama and performance. We will analyze and engage with dramatic texts, performances, and key theoretical perspectives to approach questions of theater practices and intersections with society and politics, representations of race/ethnicity, class, gender/sex/sexuality. Although the course includes all four skill areas (reading, writing, speaking, and listening), the course emphasizes oral production through class presentations, dramatic readings, performance, etc.

SPN 374 Regional History of Hispanic America

AH 3 cr
A comprehensive study of the history of specific regions of Hispanic America including pre-Columbian through contemporary issues. (Quito)

SPN 375 Spanish Civil War in Film and Text

AH GCA WI THM2 THM3 3 cr
This course explores the historical background and socio-political context of the Second Republic and the Civil War in Spain. Students will engage with a variety of literary and non-literary texts, music, and film to explore how the war was reflected and is remembered through different media.

SPN 377 Studies in Hispanic Film

AH GCA WI THM1 THM2 3 cr
Explore contemporary Hispanic cultural issues through a critical analysis of Hispanic film. Learn to watch film critically to understand how technical aspects combine with story-telling to contribute to a deeper analytic interpretation. Examine the ways films engage with history and culture, analyzing them as sources of knowledge while continuing to develop Spanish language skills and cultural competencies at an Advanced Spanish level. Taking WLC-101, 102, 103, or 104 prior to or concurrently is recommended. Course fee.

SPN 380 Topics in Spanish

AH 2-3 cr
Requires instructor permission. *Prerequisites* vary with selections.

SPN 381 Public Speaking in Spanish

AH 3 cr
This course, taught in Spanish, focuses on developing effective oral communication skills in a variety of contexts, with emphasis on diagnosing rhetorical situations, inventing and delivering informative and persuasive presentations, and facilitating public discussion. Students will become more effective communicators through researching, outlining, writing, presenting, discussing, critiquing, and revising their own work, as well as that of their peers and of other public speakers. The structure of the course allows students to pair other majors/interests with Spanish.

SPN 495 Thesis Preparation

AH 1 cr
Requires instructor permission.

SPN 500 Senior Thesis

3 cr
Definition of a question, thesis paper and oral defense in Spanish. Requires Senior Standing and permission. (Alma)

Women's and Gender Studies (WGS)

Women's and Gender Studies Minor Requirements

Eighteen credits, which must include:

1. WGS-101 and 102;
2. At least three credits from: WGS-280, 385 or 399.
3. At least nine credits (six of which must be at the 200 level or higher) from the following: ECL-340 or ECL-341; KHS-301, or 303; HST-140, 228 or 253; POL-141, 231, or 381/382; REL-202; SOC-220 or 234. Additional courses may be approved by the department to fulfill the minor.

WGS 101 Gender and Justice

EXP4 3 cr
Introduces women's and gender studies using interdisciplinary readings and lived experiences to examine assumptions about sex, gender, gender normativity, and sexuality. Analyzes the pervasive role gender plays in people's lives—across geographical areas and historical eras—to recognize how structures of gender create privilege for some and oppression for others.

WGS 102 Gender and Popular Culture

EXP4 3 cr
Explores popular culture using classic and contemporary feminist theoretical approaches. Feminist analyses of sociocultural media and artifacts inform class discussions of gender enactments, representations, and performances in popular culture.

WGS 280 Topics in Women's and Gender Studies

THM2 2-3 cr
Specific topics concerning gender issues, choices, realities and self-expression chosen by the WGS program. This course is variable credit and may have offerings from 2-3 credits. May be repeated for credit with no more than four credits counted toward the minor.
Prerequisite: WGS-101 or WGS-102 or instructor permission

WGS 385 WGS Practicum

2-3 cr
Internship designed to provide on-site personal and service-oriented learning and experiences in a wide variety of areas related to women's studies, issues and concerns. Practicums must be taken through a relevant department, with permission of the Women's Studies Coordinator and the Department Chair. This course is variable credit and may have offerings from 2-3 credits.
Prerequisite: WGS-101 and Departmental permission

World Languages and Cultures (WLC)

WLC 101 Introduction to Cultural Analysis

AH 2 cr
An introductory course that focuses on tools for cultural analysis of a variety of genres (literature, film, art, performance, etc.) from multidisciplinary perspectives. Taught in English. This course is a pre- or co-requisite for 300 level content courses in target languages.

WLC 102 Intro to Cultural Analysis: The Spanish-Speaking World

AH EXP4 3 cr
An introductory course emphasizing Hispanic culture that focuses on tools for cultural analysis of a variety of genres (literature, film, art, performance, etc.) from multidisciplinary perspectives. A course in cultural analysis is recommended prior or concurrent to enrolling in a 300-level language course. Taught in English.

WLC 103 Intro to Cultural Analysis: Beauty and Monstrosity

AH 3 cr
An introductory course emphasizing understandings of beauty and monstrosity that focuses on tools for cultural analysis of a variety of genres (literature, film, art, performance, etc.) from multidisciplinary perspectives. A course in cultural analysis is recommended prior or concurrent to enrolling in a 300-level language course. Taught in English.

WLC 104 Intro to Cultural Analysis: Francophone Africa

AH EXP4 3 cr
An introductory course emphasizing Francophone culture in Africa that focuses on tools for cultural analysis of a variety of genres (literature, film, art, performance, etc.) from multidisciplinary perspectives. A course in cultural analysis is recommended prior or concurrent to enrolling in a 300-level language course. Taught in English.

WLC 180 Topics in World Languages and Cultures

AH 2-3 cr
Various topics in World Languages and Cultures. Taught in English. May be repeated for credit if topic varies.

WLC 185 Service Learning

1 cr
May be repeated for credit with a maximum of four credits applied toward the major or minor. Requires instructor permission and placement.

WLC 230 German Film: Nazis to Reds

AH WI GCA THM1 THM2 3 cr

Investigate specific issues in German culture and history, e.g. the 'golden' years of the Weimar Republic, the Holocaust in Nazi Germany, political turmoil, racial conflicts and gender struggles in divided Germany, and its reunification through representative films with a critical eye; gain a better understanding of their historical and contemporary contexts as well as their relevance to today's American and international society.

WLC 234 Love, Sex & Censorship

AH WI THM1 3 cr

Love and sexuality have always been targets of censorship. This course examines the ban on books and films in Germany through a study of the historical and sociopolitical conditions of censorship practices. Through comparative framework students understand the political nature of regimes of different times and places in a global world as well as the conditions and limits of censorship in cyberspace.

WLC 240 Communication and Culture in Morocco

3 cr

A culture immersion course designed to introduce students to the Moroccan culture through a more personalized and focused geographical area: the Maghreb. While being in Morocco, learn in a realistic view of the culture, social, geographic, historical, linguistic, and artistic aspects of this North African country. Participate in local and national excursions, cultural activities, and day-to-day contact with locals to increase learning and to raise awareness about this part of the world.

WLC 280 Topics in World Languages and Cultures

AH THM1 THM2 2-3 cr

Various topics in World Languages and Cultures. Taught in English. May be repeated for credit if topic varies.

Prerequisite: varies by topic

WLC 380 Topics in World Languages and Cultures

AH 2-3 cr

Various topics in World Languages and Cultures. Taught in English. May be repeated for credit if topic varies.

Prerequisite: varies by topic

Board of Trustees 2026-27

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David A. Devine '90, Vice Chair. President, Smithfield Manufacturing; Clarksville, Tennessee. (1997-2000; 2014)

James A. Carman, Treasurer. Chief Financial Officer and Vice President for Finance; Alma College. (2021)

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Melinda Leonardo '01, Director of Interim Search & Senior Executive Search Consultant, AGB Search, LLC; Washington, DC (2026)

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John Colina, President, Colina Foundation; Grosse Ile, Michigan. (1989–2001; 2002–2007)

James C. Conboy Jr., Retired President and Chief Executive Officer, Citizens National Bank of Cheboygan; Cheboygan, Michigan. (2000–2012)

Candace Croucher Dugan, Retired Attorney, Warner, Norcross & Judd, LLC; Holland, Michigan. (2003–2018)

Gary W. Fenchuk '68, President, East West Partners of Virginia; Midlothian, Virginia. (1990–2014)

John C. Foster '67, Retired Chief Judge, Sixteenth Judicial Circuit Court; Presbyterian Minister; Boulder, Colorado. (2001–2013)

Nancy E. Gallagher '80, Attorney, Gallagher, Everitt & Associates, PLLC; Alma, Michigan. (2000–2018)

Glenn D. Granger '83, Chief Executive Officer, Granger Construction Company; Lansing, Michigan. (2006–2019)

Richard P. Heuschele '59, Physician, Radiology – Retired; Saginaw, Michigan. (2000–2015)

David R. Hubbard '60, Retired Vice President of Finance, Edison Sault Electric; Cheboygan, Michigan. (2011–2014)

James R. Jenkins, Retired Senior Vice President and General Counsel, Deere & Company (2000–2013); Vice President, Secretary and General Counsel, Dow Corning Corporation (1976–2000); Midland, Michigan. (1985–2004)

Donald A. Lindow, Senior Managing Director, Azimuth Capital Management, LLC; Bloomfield Hills, Michigan. (1987–2013)

Deborah Lynch Fitzgerald '93, Retired Chief Information Officer, Deltek; Ashburn, Virginia. (2018-2026)

John McCormack, Retired President and Chief Executive Officer, Firstbank Corporation; Retired President and Chief Executive Officer, Firstbank–Alma; Alma, Michigan. (1993–2017)

Thomas J. McDowell, Retired Executive Vice President, First Chicago NBD; Pompano Beach, Florida. (2006–2015)

James T. McIntyre '69, President, C. S. McIntyre & Associates; Monroe, Michigan. (1983–2017)

Stephen F. Meyer '80, Managing Director, River Marsh Capital, LLC; Retired President and Chief Executive Officer, Welch Allyn, Inc.; Okatie, South Carolina. (2006–2016; 2017–2020)

Roger L. Myers, President and Chief Executive Officer, Presbyterian Villages of Michigan; Southfield, Michigan. (1994–2018)

Antje Newhagen '67, Los Altos, California. (2004–2013)

Marcia J. Nunn '73, Retired Counsel, Ford Motor Company; Naples, Florida. (2004–2019)

Glenda D. Price, Retired President, Marygrove College; Detroit, Michigan. (2000–2009)

David T. Provost '76, President and Chief Executive Officer, Talmer Partners; Troy, Michigan. (1994–2013)

Darryl G. Schimeck '82, Managing Partner, Blue Streak Estates, LLC, Michiana Shores, IN (2014–2026)

Carolyn E. Schultz '84, Kalamazoo Quality Operations, Manager Supplier Quality, Zoetis; Kalamazoo, Michigan. (2012–2021)

Bryan K. Segedi '81, Retired Vice Chairman, Ernst & Young, LLP; Carlsbad, California. (2015–2023)

Ron R. Sexton '68, Retired Treasurer, Dow Corning Corporation; Midland, Michigan. (2004–2016)

D. Michael Sherman '74, Chairman and Chief Executive Officer, DMS Insurance Holdings, LLC; Brecksville, Ohio. (2008–2019)

Matthew E. Steinmetz '84, Partner, Kirkland & Ellis LLP; Chicago, Illinois. (2012–2019)

Officers of the College 2026-27

The year of appointment is given after each name.

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Joseph L. Odenwald, B.A. Louisiana College, M.S. Mississippi College, M.S. Michigan State University, Ed.D. The University of Southern Mississippi. (2025)

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Senior Director of Marketing

Kari M. Chrenka, M.S.A., Central Michigan University (2025)

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Athletics Director

Phillip M. Miller, B.S., Edinboro University of Pennsylvania; M.S., Indiana University of Pennsylvania; F.A. Slippery Rock University. (2025)

Associate Provost for Student Success

Dani Rossman, B.S., Central Michigan University; M.A., Central Michigan University; Ph.D., Michigan State University. (2021)

Faculty 2026-27

With the exception of the President and the Provost, the members of the faculty are listed alphabetically, with the year of appointment given after each name. The academic ranks indicated are for the academic year of 2026-27.

Joe L. Odenwald, President. B.A. Louisiana College, M.S. Mississippi College, M.S. Michigan State University, Ed.D. The University of Southern Mississippi (2025)

Sean D. Burke, Provost and Vice President for Academic Affairs. B.A., Concordia College (New York); M.Div, Lutheran Theological Seminary; Ph.D., Graduate Theological Union. (2023)

Takeshi Abo, Visiting Assistant Professor of Music. B.M., Kyoto City University of Arts; M.M., D.M.A., Michigan State University. (2006)

Victor Argueta-Diaz, Associate Professor of Engineering; Pre-Engineering Coordinator. B.S., National Autonomous University of Mexico; M.S., Ph.D., The Ohio State University. (2009)

Karen L. Ball, Charles A. Dana Professor of Kinesiology and Health Sciences. B.A., Alma College; Ph.D., University of Illinois at Chicago. (1995)

Luiz Barboza, Lecturer of Computer Science. B.S., Federal University of Pernambuco; M.S., Technological Research Institute of the State of Sao Paulo; M.B.A., Fundação Getúlio Vargas; Ph.D., CESAR School. (2025).

Janelle L. Blazek, Assistant Professor of Psychology. B.A., Kalamazoo College; M.A., Ph.D., University of Michigan. (2022)

Murray C. Borrello, Senior Instructor of Geology and Environmental Studies. B.A., Albion College; M.S., University of Massachusetts. (1987)

Emma Bosley-Smith, Assistant Professor of Sociology. B.A., Denison University; M.A., Ph.D., The Ohio State University. (2022)

Zackary L. Bowers, Assistant Professor of Psychology. B.A., Saginaw Valley State University; M.S., Ph.D., Central Michigan University. (2023)

Elizabeth M. Boyd, Assistant Professor of Psychology. B.A., Central Michigan University; M.A., Ph.D., Michigan State University. (2024)

Marilee Brooks-Gillies, Associate Professor of English. B.A., Alma College; M.A., Central Michigan University; Ph.D., Michigan State University. (2024)

Richard Bruce, Lecturer of Business Administration. B.S., Northern Illinois University; M.B.A., Marquette University; Ph.D., Cardinal Stretch University. (2025).

Liping Bu, Reid-Knox Professor of American History. B.A., M.A., Beijing University; M.S., Ph.D., Carnegie Mellon University. (1999)

Jennifer Burns, Lecturer of Kinesiology and Health Sciences. B.S., Texas Christian University; M.O.T., Texas Woman's University; Ph.D., Michigan State University. (2025).

Eric Calhoun, Professor of Biology. B.S., Truman State University; Ph.D., Mayo Graduate School. (2008)

Elizabeth A. Cameron, Professor of Business Administration. B.B.A., M.B.A., Saginaw Valley State University; J.D., Thomas M. Cooley Law School. (1988)

Douglas R. Campbell, Assistant Professor of Philosophy. B.A., McGill University; M.A., Ph.D., University of Toronto. (2023)

Khanssaa El Alami Canning, Lecturer of World Languages and Cultures. B.A., M.A., Sidi Mohamed Ben Abdellah University; Ph.D., University Michel de Montaigne Bordeaux III. (2019)

Britt Cartrite, Professor of Political Science. Also Associate Provost. B.A., M.A., University of Denver; M.A., Ph.D., University of Colorado at Boulder. (2005)

Karen Carman, Instructor of Education. B.A., Alma College; M.A., Central Michigan University; Ph.D. Candidate, Concordia University. (2026)

Chih-Ping Chen, Associate Professor of English. B.A., National Chengchi University; M.A., National Taiwan University; Ph.D., University of Massachusetts. (2000)

Matthew A. Cicci, Associate Professor of English. B.A., Indiana University-Purdue University Indianapolis; M.A., Central Michigan University; Ph.D., Wayne State University. (2015)

Anthony J. Collamati, Associate Professor of New Media. B.A., St. Anselm College; M.A., Loyola University of Chicago; Ph.D., Clemson University. (2012)

Rebecca Couch, Instructor of Education. B.A., Michigan State University; M.Ed., Wayne State University. (2026)

Robert Cunningham, Professor of Economics. B.A., The Pennsylvania State University; M.A., Ph.D., Binghamton University. (1999)

Zhewei Dai, Professor of Mathematics. B.S., Wuhan University; M.S., Ph.D., Michigan State University. (2005)

Jillian D. Dickson, Associate Professor of Art. B.F.A., Bradley University; M.F.A., Clemson University. (2015)

Matthew M. Doggett, Lecturer of Communication. B.A., B.S., M.A., Appalachian State University; Ph.D., The University of Memphis. (2023)

Joel Dopke, Towsley Professor of Chemistry. B.S., St. Norbert College; Ph.D., University of Wisconsin-Madison. (2007)

Nancy Dopke, Associate Professor of Chemistry. B.S., Millikin University; Ph.D., University of Wisconsin-Madison. (2007)

Prathim "Maya" Dora-Laskey, Associate Professor of English. B.A., M.A., Stella Maris College; M.Phil., University of Madras; Ph.D., University of South Carolina; D.Phil., University of Oxford. (2012)

Deborah A. Dougherty, Professor of World Languages and Cultures. B.A., Aquinas College; M.A., Ph.D., Michigan State University. (1996)

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- Brian J. Doyle**, Associate Professor of Biology and Biochemistry. B.S., Ph.D., University of Illinois. (2010)
- Morgan Fonley**, Associate Professor of Mathematics. B.A., B.S., M.S., Ph.D., University of Iowa. (2015)
- Kyle Gibson**, Assistant Professor of Chemistry. B.S., Hope College; Ph.D., University of Chicago. (2023)
- Andrea Gigliotti**, Instructor of Kinesiology and Health Sciences. B.S, M.S, University of Rome; Ph.D. Candidate, University of Oklahoma. (2026)
- Angie Griffin**, Instructor of Nursing. B.A, Luther College; B.S.N, Ferris State University; M.S.N, Northern Kentucky University. (2026)
- Brianna Harfmann**, Associate Professor of Kinesiology and Health Sciences. B.S., Alma College; Ph.D., University of Kentucky. (2017)
- Amanda D. Harwood**, Associate Professor of Biology. B.A., Monmouth College; M.S., Ph.D., Southern Illinois University. (2015)
- Matthew Hinkel**, Assistant Professor of Economics. B.S., Ph.D., Michigan State University. (2022)
- Derick Hulme**, Arthur L. Russell Professor of Political Science. B.A., St. Lawrence University; M.A.L.D., Ph.D., Tufts University. (1992)
- Steuard Jensen**, Professor of Physics. B.S., Harvey Mudd College; Ph.D., University of Chicago. (2009)
- Haley Jerry**, Instructor of Nursing. B.S., Alma College; M.S., Western Governors University. (2024)
- Lisa Kaylor**, Associate Professor of Mathematics. B.S., Westminster College; Ph.D., Wesleyan University. (2019)
- Angela Kelleher**, Associate Professor of Library Science. B.A., Michigan State University; M.L.S., Wayne State University. (2003)
- Jessica Kranz**, Instructor of Nursing. M.S.N, Davenport University. (2026)
- Kerry Lazenby**, Lecturer of Kinesiology and Health Sciences. B.P.E., Brock University; B.S., D.C., Logan University; D.C. (2024)
- Zi Li**, Assistant Professor of Engineering. M.S, Ph.D., Michigan State University. (2025)
- Holly Liu**, Professor of World Languages and Cultures. B.A., M.A., Peking University; M.A., Texas Tech University; Ph.D., Vanderbilt University. (2006)
- Catherine “Kayt” MacMaster**, Assistant Professor of Dance and Director of Dance. B.F.A., Oakland University; M.S.Ed., Hunter College; M.F.A., University of Illinois Urbana-Champaign. (2022)
- Sarah Martin**, Instructor of Nursing. B.S.N, M.S.N, Purdue University Global. (2026)
- Nicole Mattfeld**, Assistant Professor of Music and Director of Choirs. B.F.A., University of Wisconsin-Milwaukee; M.M., Colorado State University. (2024)
- Adam C. Matthews**, Assistant Professor of History. B.A., Wittenberg University; M.A., Western Michigan University; M.A., M. Phil., Ph.D., Columbia University. (2023)
- James Mazzuca**, Professor of Chemistry. B.A., Saint Mary’s University of Minnesota; Ph.D., University of South Carolina. (2014)
- Robert R. Molina**, Professor of Mathematics. B.S., Southern Oregon State College; M.S., Ph.D., Colorado State University. (1993)
- Kristin Olbertson**, Professor of History. B.A., Carleton College; J.D., University of Michigan Law School; Ph.D., University of Michigan. (2006)
- Recep Pekdemir**, Lecturer of Accounting. B.A, School of Business at Mugla; M.B.A, M.Sc., Ph.D., Istanbul University. (2026)
- Amy Perschbacher**, Instructor of Psychology. B.S., M.A., Central Michigan University; M.A., Chicago School of Professional Psychology. (2026)
- Marcus Richter**, Associate Professor of Library Science and Director of the Library. M.Th., Seminary of the ELFK, Leipzig, Germany; M.L.S., College of St. Catherine/Dominican University. (2009)
- Justin Rito**, Assistant Professor of Music. B.M., Alma College; M.M., Central Michigan University; M.A., University of Western Ontario; D.M.A., Michigan State University. (2023)
- Tina M. Rolling**, Associate Professor of Accounting. B.S., M.B.A., Central Michigan University. (2012)
- John Rowe**, William R. Angell Professor of Biology. B.S., Central Michigan University; M.S., Eastern Michigan University; Ph.D., University of Nebraska–Lincoln. (2002)
- Alicia Ryder**, Director of Nursing. B.S.N., Grand Valley State University; M.S.N., Spring Arbor University. (2021)
- James Schippers**, Lecturer of Music. B.M, Hope College; M.M, Western Michigan University. (2026)
- Eliezer Schwarz**, Assistant Professor of Biochemistry. B.A., Brandeis University; Ph.D., University of Illinois, Urbana-Champaign. (2024)
- Sophronia Scott**, Director of Master of Fine Arts in Creative Writing. B.A., Harvard University; M.F.A., Vermont College of Fine Arts. (2021)
- Michael L. Selmon**, Elma C. and Wesley C. Dykstra Professor of English. Provost Emeritus and Vice President for Academic Affairs (2004-2018). B.A., M.S., Miami University; M.A., Ph.D., University of Maryland. (1991)
- Marc B. Setterlund**, Professor of Psychology. B.A., Gustavus Adolphus College; M.A., Ph.D., Johns Hopkins University. (1997)

Kerissa Silverthorne, Assistant Professor of Music and Director of Bands. B.M.E, Grand Valley State University; M.M, Southern Oregon University – American Band College; M.M, Western Michigan University. (2026)

Andrew Singer, Professor of Business Administration. B.S., Southern Illinois University; M.B.A., University of Phoenix. (2023)

Stephany Slaughter, Charles A. Dana Professor of World Languages and Cultures. B.A., Washington College; M.A., Millersville University; Ph.D., The Ohio State University. (2009)

Arun Sleeba, Instructor of Business Administration. B.A., St. Stephen's College; M.A., Northern Illinois University. (2024)

Matthew J. Smith, Assistant Professor of Religious Studies. B.A., Anderson University; M.Div., Princeton Theological Seminary; M.A., Ph.D., Northwestern University. (2022)

Katie Stumpf, Associate Professor of Biology. B.S., University of Wisconsin-Madison; M.S., Ph.D., Northern Arizona University. (2024)

Benjamin Taylor, Assistant Professor of Political Science. B.A., The College of Wooster; M.A., Virginia Polytechnic Institute and State University; Ph.D., Johns Hopkins University. (2024)

Andrew Thall, Associate Professor of Computer Science. B.A., Kalamazoo College; M.S., Ph.D., University of North Carolina at Chapel Hill. (2008)

Jeffrey A. Turk, Associate Professor of Chemistry. B.S., Cleveland State University; M.S., Ph.D., University of Cincinnati. (2006)

Emrullah Uslu, Lecturer of Political Science. B.A, Turkish National Police Academy; M.A., Ankara University; M.A, City University of New York; Ph.D., University of Utah. (2026)

Lee Vander Kooi, Associate Professor of Design. B.F.A., University of Akron; M.G.D., North Carolina State University. (2021)

Vinitha R. Varghese, Assistant Professor of Economics. B.A., University of Delhi; M.A., University of Hyderabad; M.A., Ph.D., University of Illinois-Chicago. (2023)

Robert Vivian, Charles A. Dana Professor of English. B.A., M.A., University of Nebraska Omaha; Ph.D., University of Nebraska-Lincoln. (2001)

Laura von Wallmenich, Associate Professor of English. Also Associate Provost. B.A., Colby College; M.A., Ph.D., University of Washington at Seattle. (2001)

Bradford S. Westgate, Associate Professor of Mathematics. B.S., Franklin W. Olin College of Engineering; M.S., Ph.D., Cornell University. (2015)

Amanda Willman, Instructor of Education. B.A, Alma College; M.A, Central Michigan University. (2026)

Nicholas Wracan, Instructor of New Media. B.A., Alma College; M.A., Central Michigan University. (2023)

Mingxi Yang, Instructor of Marketing. B.B.A, Zhongnan University of Economics & Law; M.S., Syracuse University; Ph.D., University of South Florida. (2026)

Peggy A. Yates, Associate Professor of Education. B.A., Alma College; M.A., Central Michigan University; M.A.T., Saginaw Valley State University; Ed.D., University of Michigan-Flint. (2015)

Emeriti

John W. Arnold, Professor Emeritus of German. B.A., M.A., Ph.D., Michigan State University. 1977–2006.

Julie Wegner Arnold, Professor Emeritus of French. B.A., Alma College; M.A., University of Illinois; Ph.D., Michigan State University. 1981–2017.

Gregory Baleja, Professor Emeritus of Business Administration. B.A., M.B.A., Michigan State University. 1988–2020.

Gwyneth Hill Beagley, Professor Emeritus of Psychology. B.A., Middlebury College; M.A., Bryn Mawr College; Ph.D., Michigan State University. 1985–2016.

Walter Beagley, Professor Emeritus of Psychology. B.A., Middlebury College; M.A., Ph.D., University of Pennsylvania. 1976–2016.

Joe D. Beckmann, Professor Emeritus of Biochemistry. B.S., University of Nebraska-Lincoln; Ph.D., Medical College of Wisconsin. 1996–2017.

Carol Bender, Professor Emeritus of English. B.A., M.A., Central Michigan University; Ph.D., Michigan State University. 1986–2015.

Kathryn Blanchard, Charles A. Dana Professor Emeritus of Religious Studies. B.A., Kenyon College; M.B.A., Central Michigan University; M.Div., Princeton Theological Seminary; Ph.D., Duke University. 2006–2021.

Mary Theresa Bonhage-Freund, Professor Emeritus of Sociology and Anthropology. B.A., University of Pennsylvania; M.A.T., Duke University; M.B.A., University of Connecticut; M.A., Ph.D., The Pennsylvania State University. 1999–2015.

Richard G. Bowker, Charles A. Dana Professor Emeritus of Biology. B.S., Cornell University; M.S., Ph.D., Northern Arizona University. 1977–2001.

David L. Clark, Charles A. Dana Professor Emeritus of Biology. B.S., M.S., Central Michigan University; Ph.D., University of Cincinnati. 1992–2024.

Burnet V. Davis, Arthur L. Russell Professor Emeritus of Political Science. A.B., Dartmouth College; M.A., Ph.D., University of Chicago. 1976–2002.

John E. Davis, Charles A. Dana Professor Emeritus of Integrative Physiology and Health Science. B.A., Kenyon College; M.S., Ed.D., State University of New York at Buffalo. 1985–2018.

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- Nicholas John Dixon**, Elma C. and Wesley C. Dykstra Professor Emeritus of Philosophy. B.A., University of Leeds; M.A., Ph.D., Michigan State University. 1986–2023.
- Carol Fike**, Professor Emeritus of Theatre and Dance. B.S., Brockport State University; M.F.A., University of North Carolina at Greensboro. 1984–2013.
- Nicola Findley**, Professor Emeritus of Education. B.Ed., University of Bristol; Ph.D., Michigan State University. 2001–2022.
- Catherine Fobes**, Professor Emeritus of Sociology. A.B., Muhlenberg College; M.Div., Yale University; M.S., Ph.D., Florida State University. 1998–2021.
- Patrick J. Furlong**, Professor Emeritus of History. B.A., M.A., University of Cape Town; Ph.D., University of California, Santa Barbara. 1993–2024.
- John Holman Gibson**, Professor Emeritus of Physics. B.S.E., Ph.D., University of Michigan. 1968–2007.
- Joanne R. Gilbert**, Charles A. Dana Professor Emeritus of Communication. B.A., M.A., University of North Carolina at Chapel Hill; Ph.D., University of Texas at Austin. 1994–2020.
- Charles A. Gray**, Professor Emeritus of Integrative Physiology and Health Science. B.S., M.S., Ithaca College; Ed.D., University of Oregon. 1965–1993.
- Philip R. Griffiths**, Professor Emeritus of Theatre and Dance. A.B., Whitman College; M.A., Stanford University; Ph.D., New York University. 1965–1993.
- Karin A. Grimnes**, Professor Emeritus of Biology. B.A., University of South Florida; Ph.D., Michigan State University. 1986–2013.
- Murray Gross**, Charles A. Dana Professor Emeritus of Music. B.A., M.M., Oberlin Conservatory of Music; D.M.A., Michigan State University. 2004–2022.
- Lawrence E. Hall**, Professor Emeritus of Library Science. B.A., M.A., M.A.L.S., University of Michigan. 1969–1999.
- Scott T. Hill**, Professor Emeritus of Chemistry. B.A., Gettysburg College; Ph.D., University of Pittsburgh. 1988–2020.
- James Robert Hutchison**, Towsley Professor Emeritus of Chemistry. B.S., Wittenberg University; Ph.D., Princeton University. 1973–2006.
- Randolph Jacques**, Professor Emeritus of Business Administration. B.A., Michigan State University; M.B.A., Wayne State University. 1977–2012.
- Joseph A. Jezewski**, Professor Emeritus of Theatre and Dance. B.A., Lycoming College; M.A., University of Kentucky; M.F.A., Rutgers University. 1993–2016.
- Margarita Krakusin**, Professor Emeritus of Spanish. B.A., Universidad Pontificia Bolivariana; M.Ed., Central Michigan University; M.A., Ph.D., Michigan State University. 1998–2008.
- Edward C. Lorenz**, Reid–Knox Professor Emeritus of American History and Professor of Political Science. B.S., Towson State University; M.A., Georgetown University; Ph.D., University of Chicago. 1989–2018.
- Lynda R. Ludy**, Charles A. Dana Professor Emeritus of Education. B.S., Centenary College; M.A., Ph.D., University of Texas at Austin. 1976–1999.
- Maurie Luetkemeier**, Professor Emeritus of Integrative Physiology and Health Science. B.S., M.A., Ball State University; Ph.D., The Ohio State University. 2001–2018.
- Scott Mackenzie**, Professor Emeritus of Theatre. B.A., University of Texas at Dallas; M.F.A., Michigan State University; Ph.D., Wayne State University. 2016–2024.
- Ronald Lee Massanari**, Charles A. Dana Professor Emeritus of Religious Studies and Philosophy. B.A., Goshen College; B.D., Garrett Theological Seminary; M.A., University of Wisconsin; Ph.D., Duke University. 1970–2006.
- Myles Frances McNally**, Professor Emeritus of Mathematics and Computer Science. B.S., Drexel University; Ph.D., Temple University. 1992–2017.
- Scott Messing**, Charles A. Dana Professor Emeritus of Music. B.A., Rutgers University; M.A., Ph.D., University of Michigan. 1982–2018.
- James V. Mueller**, Professor Emeritus of Economics. B.A., Cornell College. 1976–2008.
- William Nichols**, Secrest Professor Emeritus of Music. B.M., Western Michigan University; M.M., D.M.A., Michigan State University. 1983–2024.
- John Ottenhoff**, Professor Emeritus of English. B.A., Calvin College; M.A., Ph.D., University of Chicago. 1989–2007.
- William W. Palmer**, Charles A. Dana Professor Emeritus of English. B.A., M.A., Central Michigan University; Ph.D., Michigan State University. 1977–2017.
- Carrie Anne Parks–Kirby**, Professor Emeritus of Art and Design. B.F.A., Wesleyan College; M.F.A., Virginia Commonwealth University. 1982–2015.
- John F. Putz**, Professor Emeritus of Mathematics and Computer Science. B.S., Southeast Missouri State University; M.S., Ph.D., Saint Louis University. 1981–2013.
- B. Cameron Reed**, Charles A. Dana Professor Emeritus of Physics. B.S., University of Waterloo; M.S., Queen's University; Ph.D., University of Waterloo. 1992–2017.
- Raymond Riley**, Professor Emeritus of Music. B.M., University of Illinois; M.M., DePaul University; D.M.A., Michigan State University. 1988–2020.
- Richard Allen Roeper**, Professor Emeritus of Biology. B.A., Lawrence University; M.A.T., Miami University; Ph.D., Oregon State University. 1972–2000.
- Susan Root**, Professor Emeritus of Education. B.A., Michigan State University; M.A.T., Oakland University; Ph.D., Michigan State University. 1987–2003.

Douglas J. Scripps, Professor Emeritus of Music. A.B., Calvin College; M.M., University of Michigan. 1985–2002.

Donald W. Shontz, Professor Emeritus of Education. B.S., M.S., Ph.D., Florida State University. 1970–1987.

Timothy A. Sipka, Professor Emeritus of Mathematics and Computer Science. B.A., Anderson College; M.A., M.S., Western Michigan University; M.S., Central Michigan University. 1979–2019.

Carol W. Slater, Charles A. Dana Professor Emeritus of Psychology. B.A., University of Michigan; M.A., Ph.D., Michigan State University. 1967–2009.

Ute Stargardt, Charles A. Dana Professor Emeritus of English. B.A., M.A., Texas A & I University; Ph.D., University of Tennessee, Knoxville. 1982–2009.

Melissa M. Strait, Towsley Professor Emeritus of Chemistry. B.S., Oregon State University; Ph.D., Arizona State University. 1985–2021.

Stanley Brian Stratton, Professor Emeritus of Religious Studies. B.A., Pikeville College; M.Div., Ph.D., Princeton Theological Seminary. 2000–2018.

Peggy Thelen, Professor Emeritus of Education. B.S., M.A., Central Michigan University; Ph.D., Michigan State University. 2004–2022.

Timm Norman Thorsen, Professor Emeritus of Sociology. B.A., M.A.T., Beloit College; M.A., Ph.D., University of Massachusetts, Amherst; E.M.B.A., Claremont College. 1979–2019.

Steven T. Vest, Professor Emeritus of Library Science and Head of Reference and Instruction Services. B.F.A., Bowling Green State University; M.F.A., Indiana University; M.S.L.S., Clarion University of Pennsylvania. 1999–2020.

Micheal R. Vickery, Professor Emeritus of Communication. B.S., University of Alabama; Ph.D., University of Texas at Austin. 1992–2016.

Lawrence W. Wittle, William R. Angell Professor Emeritus of Biology. B.S., Lebanon Valley College; Ph.D., University of Virginia. 1970–2008

Carol Zeile, Professor Emeritus of Library Science. B.A., Alma College; M.A., Indiana University; M.L.S., Western Michigan University. 1998–2018.

David Zerbe, Paul Cameron Russell Professor Emeritus of Music. B.M., M.M., Central Michigan University. 2004–2026.

