



**ALMA
COLLEGE**

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1-800-321-ALMA • www.alma.edu

2015-16 Academic Catalog

A College of Distinction

The mission and core values of Alma College emerge from the spirit of the founding motto: “to the glory of God and the dignity of all.” Founded in 1886 by the Presbyterian Synod of Michigan, Alma College was dedicated to the pursuit of learning that reflected the Judeo-Christian heritage of its founders joined with the continually relevant aims of the liberal arts.

This dedication to uncommon achievement is as evident today as it has been throughout the College’s history.



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.

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.

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.

Table of Contents

Academic Calendar 2015-16	3	Computer Science (CSC)	35
Welcome, Alma College in Brief.....	4	Economics (ECN).....	36
Accreditation and Compliance Statements	5	Education (EDC).....	38
Academic Rules and Procedures.....	6	English (ENG)	45
Academic Honors.....	8	Environmental Studies (ENV).....	48
Special Programs	8	Exercise and Health Studies (EHS).....	49
Accelerated Programs/Advanced Placement Options ...	9	Foreign Service (FOR)	49
Admissions Information	10	French (FRN)	50
College Expenses	10	Geography (GGR)	52
Family Educational Rights and Privacy Act and Alma College	13	Geology (GEO).....	52
Media Use Policy.....	13	German (GRM).....	52
Requirements for Degrees	14	Gerontology (GER).....	52
General Education Goals.....	15	Greek (GRK)	54
Guide to General Education		Hebrew (HEB).....	54
Distributive Requirements	16	Health Studies.....	54
Courses of Instruction	17	History (HST)	54
Guide to Understanding Course Listings.....	17	Humanities (HUM).....	58
General Studies	18	Integrative Physiology and Health Science (IPH)	58
First Year Seminar (FYS).....	18	Athletic Training (ATH)	59
Honors Program (HNR)	18	Latin (LAT).....	62
Non-Departmental (STC).....	18	Library Research (LIB)	62
American Studies (AMS).....	18	Mathematics (MTH)	62
Anthropology (ANT)	18	Mathematical Sciences (MSC).....	62
Art and Design (ART).....	20	Music (MUS).....	64
Astronomy (AST).....	22	New Media Studies (NMS)	69
Biochemistry (BCM).....	22	Nursing (NUR).....	70
Biology (BIO)	23	Philosophy (PHL)	72
Biotechnology (BTC).....	25	Physical Science (PSC)	74
Business Administration (BUS)	26	Physics (PHY)	74
Accounting.....	26	Political Science (POL).....	75
Professional Accounting (CPA).....	26	Psychology (PSY)	78
Finance.....	26	Public Affairs Institute (PAF).....	79
Management	26	Public Health (PBH).....	80
Marketing.....	26	Religious Studies (REL).....	80
Health Care Administration (HCA)	26	Sociology (SOC)	82
International Business Administration (IBA)	27	Spanish (SPN).....	83
Chemistry (CHM)	31	Theatre and Dance (THD).....	86
American Chemical Society Certified Degree	31	Women's and Gender Studies (WGS).....	90
Chinese (CHN)	32	Board of Trustees 2015-16.....	91
Cognitive Science (COG)	33	Administration 2015-16.....	92
Communication (COM).....	33	Faculty 2015-16.....	96

2015-16 Academic Calendar

Fall 2015

August	29	Saturday	Freshman Orientation Begins; Opening Convocation
September	1	Tuesday	Last Day to Add a FYS Course (3 or 5 cr.)
September	7	Monday	Residence Halls Open, Noon
September	8	Tuesday	Classes Begin, 8 a.m.
September	11	Friday	Last Day to Add a 1st 7-week Class or Delayed Start FYS (2 or 4 cr.)
September	18	Friday	Last Day to Add a 14-week Class
October	2	Friday	Last Day to Drop a 1st 7-week Class
October	3	Saturday	Homecoming
October	19–20	Monday–Tuesday	Fall Term Recess
October	21	Wednesday	Classes Resume, 8 a.m.
October	23	Friday	Middle of Term
October	26	Monday	Begin 2nd 7-week Classes
October	30	Friday	Mid Term Grades Due to Registrar, 9 a.m.
			Last Day to Add a 2nd 7-week Class
			Last Day to Drop a 14-week Class; Elect Pass-Fail Option
November	9–20	Two Weeks	Winter Term 2016 Registration
November	20	Friday	Last Day to Drop a 2nd 7-week Class
November 23 – December 1		Nine Days	Drop/Add for Winter Term
November	25	Wednesday	Thanksgiving Recess Begins, 5 p.m.
November	30	Monday	Classes Resume, 8 a.m.
December	14–18	Monday–Friday	Fall Term Exams
December	18	Friday	Residence Halls Close, 5 p.m.
December	22	Tuesday	Final Grades Due to Registrar, 9 a.m.; Posted by December 25

Winter 2016

January	10	Sunday	Residence Halls Open, Noon
January	11	Monday	Classes Begin, 8 a.m.
January	15	Friday	Last Day to Add a 1st 7-week Class
January	18	Monday	Martin Luther King Jr. Celebration Day
			Classes Cancelled 12:30–6:00 p.m.
January	22	Friday	Last Day to Add a 14-week Class
February	5	Friday	Last Day to Drop a 1st 7-week Class
February	8–12	Monday–Friday	Spring Term Registration
February	24	Wednesday	Middle of Term
February	25	Thursday	Begin 2nd 7-week Classes
February	27	Saturday	Winter Term Recess Begins
February	29	Monday	Mid Term Grades Due to Registrar, 9 a.m.; Posted by March 4
March	7	Monday	Classes Resume, 8 a.m.
March	11	Friday	Last Day to Add a 2nd 7-week Class
			Last Day to Drop a 14-week Class; Elect Pass-Fail Option
March	21–25	Monday–Friday	Fall Term 2016 Registration; Drop/Add for Spring Term
March	25	Friday	Good Friday, No Classes After 12:30 p.m.
March 28 –April 1		Monday–Friday	Fall Term 2016 Registration
April	1	Friday	Last Day to Drop a 2nd 7-week Class
April	4–8	Monday–Friday	Drop/Add for Fall Term
April	7	Thursday	Honors Day
April	18–22	Monday–Friday	Winter Term Exams
April	22	Friday	Residence Halls Close, 5 p.m.
April	23	Saturday	Commencement, 2 p.m.
			Residence Halls Close for Graduates, 5 p.m.
April	26	Tuesday	Final Grades Due to Registrar, 9 a.m.; Posted by April 29

Spring 2016

April	30	Saturday	Residence Halls Open, Noon
May	1	Sunday	Classes Begin, 1 p.m.
May	4	Wednesday	Last Day to Add a Spring Term Class
May	20	Friday	Last Day to Drop a Class; Elect Pass/Fail Option
May	26	Thursday	Spring Term Ends/Residence Halls Close, 5 p.m.
May	31	Tuesday	Final Grades Due to Registrar, 9 a.m.; Posted by June 3

Summer 2016

May 30 – June 30			Summer Session I
July	5	Tuesday	Grades Due
July 5 – August 26			Summer Session II
August	29	Monday	Grades Due

Welcome to Alma College

The 2015-16 Alma College Academic Catalog is your guide to the major, minor, program and degree requirements of Alma College. The catalog provides course descriptions, as well as details about academic rules and procedures, and your rights as a student as they relate to your academic record. The catalog is unique to your entering class and is intended to help guide you in developing your personalized academic plan.

The Alma College faculty, your academic advisor and college staff are here to assist you. We will help you discover your academic interests, pursue unique research and internships opportunities, and ultimately, help you achieve your individual career goals.

Again, welcome to Alma College! We wish you the best in your academic pursuits and hope you will take advantage of the numerous opportunities available to you as part of the Alma Experience.

— Julie Williams
Associate Provost and Registrar

Alma College in Brief

A Liberal Arts Education

More than 125 years ago, a group of devoted Presbyterian clergy and laymen 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 abilities 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 up 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 selective Baccalaureate College — Arts and Sciences by the Carnegie Foundation for the Advancement of Teaching. The College confers bachelor's degrees in five areas: arts, sciences, fine arts, music and nursing.

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 and Compliance Statements

Alma College is accredited by the Higher Learning Commission. Individual academic programs have received accreditation or approval from the following state or national credentialing organizations.

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 Association of Colleges of Nursing*
One Dupont Circle NW, Suite 530
Washington, DC 20036
Phone: (202) 463-6930
Web site: aacn.nche.edu

Commission on Accreditation of Athletic Training Education
6850 Austin Center Blvd., Suite 100
Austin, TX 78731-3184
Phone: (512) 733-9700 / (844) 462-2283
Web site: caate.net/

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

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, Box 30008
Lansing, MI 48909
Phone: (517) 373-3324
Web site: michigan.gov/mde

Michigan Department of Licensing and Regulatory Affairs
Michigan Board of Nursing
PO Box 30193
Lansing, MI 48909
Phone: (517) 241-0918
Web site: michigan.gov

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

Emergency Procedures

Alma College has adopted an Emergency Response Plan, revised in April 2013, 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 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 via the College's Web portal.

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.

Family Educational Rights and Privacy Act. The College supports the Family Educational Rights and Privacy Act (FERPA) of 1974, as amended. This statement of policy incorporates the rights accorded and the privacy guaranteed the student by this Act. For more information concerning this regulation please see ed.gov/policy/gen/guid/fpco/ferpa/index.html.

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.

Nondiscrimination Statement. Alma College is committed to providing equal educational opportunities for each student. Our non-discrimination policy applies to age, color, creed, gender, national origin, physical ability, race, religion and sexual orientation. Questions or concerns about our policies and practices regarding these matters should be directed to Dr. Nick Piccolo, Title IX Coordinator at (989) 463-7333 or piccolo@alma.edu.

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 the Center for Student Opportunity to initiate services.

Notice. 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.

* Pending approval

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 academic major is declared.

Conditions of Enrollment

Registration. Returning students usually select courses during the registration period in the preceding term. Newly admitted students make course selections during Becoming A Scot Days. The selections are then reviewed with their faculty advisors during Orientation week, at which time the schedule may be adjusted.

Changes in Registration. Students must file changes through the approval process with the Registrar's Office. Courses may be added during the first week of each term if approved by the advisor and during the second week if approved by both the advisor and the instructor. No courses, except for those scheduled for the last seven weeks of the term, may be added after the second week.

Withdrawal. Withdrawal from a class may occur through the ninth week of a 14-week course, the fifth week of a seven-week course, or the third week of a four-week course. Neither the course nor the withdrawal will appear on the student's record.

Class Load. The class load for a 14-week term shall be no less than 13 and no more than 18 credits for full-time status. Students who wish to qualify for full benefits from the Veterans Administration, Social Security or other financial aid sources are advised to enroll for not less than 13 credits. Athletes should be aware that the Michigan Intercollegiate Athletic Association requires a 13-credit load for eligibility.

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.

Commencement Attendance. Seniors are required to participate in Commencement unless excused by the Provost or the Registrar.

Final Examination Schedule. 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. Make-up examinations are given only with the permission of the instructor and may be charged a fee.

Withdrawal from College. Students who wish to withdraw from Alma College must complete the withdrawal process by contacting the Center for Student Opportunity. If this process is not completed, students will forfeit their deposits and refunds. The College assumes that students beginning a term intend to complete it. Students who leave during a term without completing the withdrawal process may receive failing grades for course enrollments.

Service members who must withdraw during the term due to unanticipated deployments or mobilization, activation, and/or temporary duty assignments may have the option to complete the term off campus, if feasible. The student would need to consult with faculty members and the Registrar's Office to review the options available.

If completion of the term is not an option, students withdrawing would be assigned non-punitive grades of 'W' (for 'withdraw') for the term.

Grading Practices

Grading System. The following letters and grade points are used to record evaluations of student work: "A" (4.0); "AB" (3.5); "B" (3.0); "BC" (2.5); "C" (2.0); "CD" (1.5); "D" (1.0); "DE" (0.5); and "E" (0.0 — failing). An "E" will 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 successfully 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.

Satisfactory Grade Option. Students may elect the Satisfactory Grade Option ("S" or "F") by filing the approved form with the instructor's consent at the Registrar's Office before the deadline to drop the class. If the student elects this option, evaluation of the course work is recorded as "S" (equivalent to a "C" or better) or as "F" (failing, no credit). Neither grade is computed in the GPA.

Application of the "S/F" option is limited as described below:

1. It is available only to students of sophomore, junior or senior standing.
2. No more than 16 credits may apply to the 136-156 required for the degree.
3. No more than six credits per term may be elected under this option.
4. No course counting for a Teaching Major or Minor and no education course presented for teacher certification may be graded using this option.
5. No more than four credits of the 36 required for the major (or six credits of the 56 required for an interdepartmental major or POE) may be graded under this option.

Some classes are graded only "S" or "F" and the student has no option. Credits earned for these courses are not subject to the limitations described above.

Grade Reports. Grade Reports are made available to all students on the student portal at the end of each term and to first-year students and sophomores at mid-term.

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. Students admitted to Alma College may earn degree credits. If enrolled in a full class load, students will be certified as regularly enrolled students and classification will be based on the number of credits earned: freshman (0-24); sophomore (25-55); junior (56-89); or senior (90 plus). Eligibility for some forms of financial aid may depend upon progress toward the degree as indicated by these classifications.

Probation and Dismissal. Students must achieve a 2.0 GPA to graduate. Students with less than a 2.0 GPA will be placed on probation and may be dismissed or barred from registration whenever such action is considered to be in the best interest of the student or the College.

Probation Guidelines. The Probation Guidelines in the chart below are based on an ascending scale of grade point deficiencies and the number of terms enrolled in college. Normal progress is defined as any condition above unsatisfactory progress (i.e., jeopardy).

Only students who are making unsatisfactory progress will be subject to restrictions on athletic eligibility, extracurricular activities and/or financial aid eligibility. Students will qualify for the recommended status when either the GPA equals or falls below, or the grade point deficiency equals or exceeds, the posted criteria.

Probation Guidelines				
# Terms	Unsatisfactory Progress		Satisfactory Progress	
	Dismissal	Jeopardy	Probation	Warning
1	—	1.25 (-12)	1.75 (-4)	<2.00 (-0.5)
2	1.50 (-16)	1.70 (-10)	<2.00 (-0.5)	
3	1.70 (-14)	1.85 (-8)	<2.00 (-0.5)	
4	1.80 (-12)	1.90 (-6)	<2.00 (-0.5)	
5	1.90 (-10)	1.95 (-4)	<2.00 (-0.5)	
6	1.95 (-6)	<2.00 (-0.5)		
7-10	<2.00 (-0.5)			

Academic Dismissal. Academic dismissal constitutes involuntary separation of the student from the College for a minimum of one Fall or Winter term. Re-enrollment, on academic jeopardy, is contingent upon approval of the Academic Standards Committee. Approval typically will be granted upon evidence of improved performance in academic work as demonstrated by successful (cumulative 3.0 or higher) completion of the equivalent of 13 credits of coursework which meets the requirements for transfer credits. In no case will a student be readmitted for the regular term succeeding the term in which the student was dismissed. First-term freshmen and first-term transfer students are not subject to academic dismissal.

Academic Jeopardy. Academic Jeopardy represents “unsatisfactory progress toward the degree” for determining eligibility for such programs as intercollegiate athletics and financial aid. Unsatisfactory progress also results from failure to complete credits according to this schedule: first year — 25; second year — 56; third year — 90; fourth year — 110; and fifth year — 136. Students who are subject to this level of probation may re-enroll at Alma College in a subsequent term according to the conditions as follows:

1. Arrangement with the academic advisor of a plan for improving academic performance to include repetition of classes, change of academic program, participation in the academic enrichment program, weekly meetings with the advisor to monitor progress and/or reduction of course load.
2. Agreement to the restriction of participation in extracurricular activities including varsity athletics, Greek societies, community government and/or hours of employment.
3. Completion of an interview with an administrator in the Center for Student Opportunity to verify understanding of and compliance with these conditions prior to re-enrollment.

First-term transfer students will qualify for jeopardy status according to the criteria for first-term freshmen. After the first term of enrollment at Alma, however, the published guidelines will apply.

Academic Probation and Warning. Academic Probation and Warning are categories of probation which should warrant the student’s concern, but are not subject to the extracurricular restrictions cited above. Eligibility for some forms of financial aid, however, may be affected.

Right of Appeal. Individuals or groups affected directly by committee actions or decisions have the right to appeal such actions or decisions by submitting dissenting reports first to the committee, and second to the Faculty Organization and/or Student Congress (except in those cases where appeal procedures are delineated in the description of committee functions.)

Notification of these actions will be sent from the Office of the Provost to the student after review by the Academic Standards Committee of the faculty.

In accordance with Veterans Administration regulations, students who receive VA benefits and remain on probation for two consecutive terms will be deemed ineligible for further VA certification. To qualify again for VA benefits, such students must achieve a 2.0 GPA.

Other Procedures

Academic Minors. Students may obtain a minor in some fields of study. The minor must be a concentration of at least 24 credits including the requirements listed by the department. Every 24-credit concentration does not constitute a minor; to qualify, it must be approved by the department on a minor declaration form available at the Registrar’s Office.

The GPA in the area of the minor concentration must be at least 2.0 (“C”).

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.

Waiver Petitions. To secure waiver of College policies or requirements, students may petition the Academic Standards Committee. Comments from the advisor and other concerned parties are often required before the petition will be reviewed. There is no charge for the petition process. Petition forms are available in the Registrar’s Office.

Academic Dishonesty. Appropriate disciplinary action, including possible separation from the College, will be taken when students engage in plagiarism; the exchange of information on examinations; assisting or receiving assistance in the completion of an examination, the writing of an essay or the preparation of a laboratory report; or any other attempt to obtain deceptively an unearned grade.

Disciplinary Procedures. Disciplinary action following academic dishonesty is handled initially by the faculty member in whose class the offense occurred, who may impose penalties up to and including failure in the course. (Note: A student may not drop a course in which he or she has been failed for cheating.) All infractions and actions are to be reported to, and recorded in, the Provost’s Office. These cases are then reviewed by the Provost, who, especially in the case of repeated offenses, may apply more severe penalties than those imposed by the instructor. Finally, the Provost may refer cases to the Campus Judicial Committee, which may impose penalties up to and including suspension or expulsion from the College.

Appeals Procedures. A student may appeal the instructor’s decision to the Provost. The student may appeal the Provost’s decision to the Campus Judicial Committee.

Academic Honors

Dean's List

Students who achieve a 3.5 term GPA while carrying a minimum load of 13 credits (eight of which must be graded A-E) qualify for the Dean's List. The Dean's List is compiled at the end of both the Fall and Winter terms.

Departmental Honors

To graduate with Departmental Honors, students must demonstrate superior performance on the departmental comprehensive evaluation (where offered), present a thesis of honors caliber and achieve a GPA of at least 3.5 in the major field. Each department has autonomy over the comprehensive evaluation and the thesis.

President's Outstanding Senior Award

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

President's Cup

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

Graduation Honors

Graduation Honors are awarded to graduating seniors who have completed at least 60 credits at Alma College:

- **Summa cum laude** to students who have achieved a 3.8 GPA (and 3.6 in credits outside the division of the major)
- **Magna cum laude** to students who have achieved a 3.6 GPA (and 3.4 in credits outside the division of the major)
- **Cum laude** to students who have achieved a 3.4 GPA (and 3.2 outside the division of the major)

Special Programs

Presidential Honors Program

In addition to academic excellence and a more thorough understanding of the liberal arts, the Presidential Honors Program's primary goals include stewardship, citizenship and leadership. Honors scholars are encouraged to immerse themselves in campus and community service and act as role models for their student peers.

Freshman Year. Honors students enroll in a one-semester 2-credit First Year Honors course, usually in the winter term. During this seminar, you will learn the history and rationale of the liberal arts and begin to consider how the liberal arts can best serve the needs of a 21st century student. You will also begin to consider possible collaborative efforts with faculty in your interest fields.

Sophomore Year. During your second year, you will enroll in a one-semester 2-credit Honors seminar and complete one of two projects:

1. A special research project from the "Faculty Project Catalog," which includes a list of research projects that faculty members have identified as needing student input to create a clearer picture
2. A directed study project proposed by the student and endorsed by a member of the Alma College faculty

Junior and Senior Years. During your last two years at Alma, to receive the honors designation upon graduation you must maintain a cumulative GPA average of 3.5 or higher and complete:

- A 4-credit research project under close direction of a faculty member
- A formal proposal to the Alma College administration to enhance the Alma College student experience or to enhance the college's reputation beyond Michigan's borders
- A service learning project
- A presentation of honors-related research on Honors Day
- A senior honors thesis or project

You may also choose to complete the requirements for membership in Phi Beta Kappa.

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 40 majors and interdepartmental majors, 32 minors, four different degree programs, and individually designed areas of concentration called Programs of Emphasis which are aimed at specific professional careers.

Interdisciplinary Programs

American Studies	Gerontology
Biochemistry	International Business
Cognitive Science	Nursing
Communication and New Media Studies	Public Affairs
Environmental Studies	Public Health
Foreign Service	Women's and Gender Studies

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.

Pre-Professional Programs

Military Service: ROTC	Pre-Occupational Therapy
Pre-Dentistry	Pre-Physical Therapy
Pre-Engineering	Pre-Physician's Assistant
Pre-Law	Pre-Optometry
Pre-Medicine	Pre-Veterinary
Pre-Ministry	Teaching

Accelerated Programs and Advanced Placement Options

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.

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 should be sent to the Registrar's Office for credit to be granted. The Advanced Placement courses and qualifying scores for the examinations are listed on the following table.

College Level Examination Program (CLEP)

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

International Baccalaureate (IB)

Alma College awards 32 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 as listed below. Alma College course credit earned by achievement on IB will satisfy distributive requirements for graduation.

Advanced Placement Courses and Qualifying Scores

AP Course Name	Scores	Alma College Course Equivalent Credits Awarded*
American Government and Politics	4	POL 101 (4)
Art History	4 (3 w/dept. approval)	ART 112 (4)
Art 2D Design	4	ART 180 (4)
Art (Studio)	4	ART 180 (4)
Biology	4	BIO 180 (4)
Chemistry	4	CHM 115 (4)
Comparative Government and Politics	4	POL 111 (4)
Computer Science A	5 (4 w/dept. approval)	CSC 120 (4)
Computer Science AB	4	CSC 120 (4)
	5 (w/dept. approval)	CSC 120-220 (4-8)
Economics: Macro	4	ECN 201 (4)
Economics: Micro	4	ECN 202 (4)
English Language and Comp	3	ENG 100 (4)
English Literature and Comp	3	ENG 180 (4)
Environmental Science	4	ENV 180 (4)
European History	4	HST 180 (4)
French Language (Level 3)	4	FRN 221 (4)
French Literature (Level 3)	4	FRN 222 (4)
German Language (Level 2, 3)	4	GRM 221 (4)
German Literature (Level 3)	4	GRM 222 (4)
Human Geography	4	GGR 102 (4)
Math: Calculus AB	4	MTH 121 (4)
Math Calculus: BC	3	MTH 121 (4)
	4	MTH 121-122 (8)
Music: Listening and Literature	4 (3 w/dept. approval)	MUS 180 (4)
Music Theory	4 (w/dept. approval)	MUS 111-112 (4-8)
Physics B	4	PHY 112-113 (8)
Physics C	4	PHY 121-122 (8)
Psychology	4	PSY 180 (4)
Spanish Language	4	SPN 221 (4)
Spanish Literature	4	SPN 222 (4)
Statistics	4	MTH 116 (4)
U.S. History	4	HST 180 (4)
World History	4	HST 180 (4)

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

Admission Information

Freshman Admissions

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, preferably by December 1. Alma College will continue evaluating applications on a rolling basis throughout the year. Online application and application requirements may be found at www.alma.edu/apply or www.commonapp.org.

Basis for Admission

To be considered for admission, high school students should have (1) approximately a "B" average or higher, (2) an ACT composite score of 22 or a SAT combined (Critical Reading, Math and Writing) score of 1530 and (3) 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 who do not meet these requirements are considered individually for admission. All applicants are considered on the basis of their academic and test records.

Alma College's non-discrimination policy includes age, color, creed, gender, national origin, physical ability, race, religion and sexual orientation.

Pre-Enrollment Requirements

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

1. An official ACT or SAT profile sheet to be used in academic advising and course selection.
2. A final transcript of high school grades, including confirmation of graduation. Transcripts are also used in academic advising.
3. A medical form which will be used to establish the student's confidential medical history in the Wilcox Medical 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 sit in on classes. The Admissions Office is open for interviews Monday through Friday from 8 a.m. to 5 p.m. (EST) and selected Saturdays. Please consult www.alma.edu/visit for all our visit options. You may also call the Admissions Office at 1-800-321-ALMA or e-mail admissions@alma.edu

Transfer Credit Evaluation

Alma College will accept credit earned from regionally accredited colleges or universities in the United States. An evaluation of credit gained is available upon submission of an application and transcripts to the Admissions Office. Limitations are as follows:

1. Only courses that are graded "C" (2.0) or higher will be accepted for credit.
2. All transfer students must complete the final 68 credits for the degree in residence at Alma.
3. Transferred credit must be documented by receipt of an official transcript from each institution attended.

Transfer students are encouraged to consult with the Admissions Office to review transfer credit equivalencies.

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 30 total may be taken in this manner.

After 30 hours, 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.

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 enrollment form available from the Registrar's Office and a high school transcript verifying a "B" average. College enrollment is limited to four credits for the first term and eight credits in subsequent terms. Contact the Registrar's Office for further information at (989) 463-7348.

College Expenses

The total charges to attend Alma College for the 2015-16 academic year are \$45,250 for students who enrolled before fall 2013 and \$45,628 for students enrolled for the first time in fall 2013 and after. As shown in the accompanying chart, these charges include tuition, board and double room, and the student activity and technology fees for the Fall and Winter terms. Spring Term charges are reflected in the schedule below. The Board of Trustees reserves the right to change any charges prior to the opening date of any term.

The tuition charge shown (\$35,008 and \$35,386 for the Fall and Winter terms) is for a term load of 13 to 18 credit hours. Students

registering for more than the normal allowable credit hours per term are charged at the rate of \$1,100 per credit hour for the overload.

If a student goes from full-time status to part-time status after the official census date for the term (generally at the end of the second week) 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 Student Life Office.

Costs for Full-Time Students *Enrolled First Time Fall 2013 and After*

Term	Tuition	Student Activity Fee	Technology Fee	Double Room and Board	Total
Fall Term	\$17,693	\$130	\$80	\$4,911	\$22,814
Winter Term	\$17,693	\$130	\$80	\$4,911	\$22,814
TOTAL	\$35,386	\$260	\$160	\$9,822	\$45,628

Costs for Full-Time Students *Enrolled Before Fall 2013*

Term	Tuition	Student Activity Fee	Technology Fee	Double Room and Board	Total
Fall Term	\$17,504	\$130	\$80	\$4,911	\$22,625
Winter Term	\$17,504	\$130	\$80	\$4,911	\$22,625
TOTAL	\$35,008	\$260	\$160	\$9,822	\$45,250

Spring Term Expenses

Tuition	Double Room and Board	Total
\$1,330	\$600	\$1,930

Summer Expenses

2015 Tuition	2016 Tuition	2015 Room
\$550/credit	\$550/credit	\$60/week

Students may elect to participate in an off-campus Spring Term program. The costs — airline, hotel, meals, fees, etc. — for these opportunities are in addition to the Spring Term tuition charge. Room and board charges are assessed for the days spent on campus.

Housing Expenses. Costs shown for 2015-16 reflect double room occupancy. Students living in small single rooms will be charged \$5,429 each term for room and board.

Deposits. All accepted applicants are required to pay a Commitment Deposit of \$200, refundable until May 1. Special deposit requirements for international students are described elsewhere in this catalog. Half of the Commitment Deposit is applied as credit to the student's account for the Fall Term. The other half serves as a security reserve from which the College may recover expenses incurred by the student for damage to or loss of College property. Any unexpended portion of this fee is refunded to the student after separation from the College providing all student charges have been paid in full.

Tuition-Exempt Credits. All students are permitted to enroll in a maximum of two ensemble credits above the normal load of 18 credits without incurring a tuition overload charge. Contact the Registrar's Office for exempt courses.

Auditing Courses. Tuition for students who audit classes (for no credit) is \$550 for each credit hour.

Health Insurance Plan. All Alma College 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 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, room and board, hospital miscellaneous, surgery (inpatient and outpatient), wellness

benefits and a 24-hour Nurse Advice Line. Full details about the plan and costs are available at www.CIRStudentHealth.com/Alma or at the Wilcox Health Center.

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 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.

Off-Campus Study Costs and Financial Aid. Students will be assessed costs appropriate to their major and the program in which they are enrolled.

- 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 will be assessed Alma College tuition and mandatory fees for semester programs. Tuition for summer programs and all room and board fees will be assessed for either Alma College or the host institution, depending on the College's agreement with the host institution. Both Alma College and state / federal financial aid may be applied toward semester exchange programs.
- Off-Campus Study — defined as non-exchange domestic and study abroad programs approved for currently enrolled Alma College students.
 - All students *except* those who have declared a Modern Language major are assessed the tuition and mandatory fees of the selected host program, as well as a \$500 administrative fee. Students will be assessed the room and board fee, and other fees, if applicable. Alma College pays the required fees to the host institution on behalf of the student and these costs will be added to the Alma College student account. External funding, including state and federal financial aid, may be applied to off-campus study. Alma College financial aid, including Tuition Exchange Programs, will generally not be 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.

- b. Students **who have** declared a Modern Language major, which requires study abroad, may choose either of the following:
- i. Students may be assessed Alma College tuition and receive all Alma College and state and federal financial aid during their study abroad in the fall, winter or spring terms. No financial aid is available for summer programs. Students will be assessed the room and board fee, if applicable, and other mandatory fees associated with the host program. Alma College pays the required fees to the host institution on behalf of the student and the cost is added to the Alma College student account. If the host institution's tuition cost exceeds the cost of Alma College tuition, the student will be charged for the excess amount in addition to the cost of Alma's tuition.
- or:
- ii. Students may be assessed the host institution tuition and receive only state and federal financial aid for semester programs. No financial aid is available for summer programs. ETG may be applied up to the cost of Alma College tuition. Unused ETG may occasionally be used in a subsequent semester. Students are assessed the room and board fee, if applicable, and other mandatory fees associated with the host program. Alma College pays the required fees to the host institution on behalf of the student and the cost is added to the Alma College student account.

Orientation. All incoming students are required to attend Orientation before the Fall Term. Transfer students are strongly encouraged to attend Orientation. The charge for Orientation is \$350 and includes room and board.

Student Activity Fee. The students of Alma College have elected to assess a fee on themselves at the rate of \$260 per year. This fee is used to sponsor social events such as dances, movies and live entertainment; support the yearbook, student newspaper and campus radio station; and admit each student to athletic events. *All students enrolled for eight or more credits are charged this fee.*

Technology Fee. Alma College students are charged a technology fee of \$160 per year. This fee covers the cost of wireless internet service and allows the College to enhance technology services as new technology arises.

Summer Session. Tuition for the 2015 or 2016 summer session is \$550 per credit hour or \$2,200 for a four-credit course.

Payment of Tuition and Fees. Charges for tuition, room, board and fees are billed to students each term.

There are three alternatives for paying these charges:

1. Full payment is due on or before August 21, 2015, and January 4, 2016, respectively, for the Fall and Winter terms.
2. A deferred payment option provides for payment of half the balance due (after financial aid credits have been applied), plus a \$20 processing fee for the Fall Term that must be paid by August 21, 2015, with a deferred second payment for the remaining balance on or before October 9, 2015. The first payment for Winter Term, plus a \$20 processing fee is due on or before January 4, 2016, and the deferred second payment on or before February 22, 2016. A signed Deferred Payment Agreement form must be received by the Financial Services Office by the due date of the first payment for each term, August 21, 2015 and January 4, 2016 respectively.
3. An educational financing plan that permits payment of the annual expense over the academic year is available through Higher One. Information can be obtained from Higher One directly at 1-800-635-0120 or through their Web site at <https://tuitionpay.higherone.com/alma>. Some literature is also available from the Financial Services Office or Admissions Office.

Payment of tuition and fee charges can be made with cash, personal checks, bank drafts, or money orders. Payments can also be made online with a Visa, Mastercard, American Express or Discover card, or with an e-check at the Financial Services Office Web

site: www.alma.edu/paymybill. A 2.5% 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.

Miscellaneous Fees

Auditing	\$550/credit
Continuing Education	\$275/credit
Early Examination Fee	\$125
Freshman Orientation	\$350
Late Registration Fee	\$125
Motor Vehicle Registration	
Resident Students	\$235/year
Resident Students – Silver Parking	\$210/year
Commuter Students	\$150/year
Opera House Students	\$100/year
Proficiency Examination	\$275/credit
Room Change Fee	\$50

All drafts and checks should be made payable to Alma College.

Advance billings are available to be viewed and/or downloaded from the student portal approximately two weeks before the start of each term. Payment may be made by mail, online or in person at the Alma College Financial Services Office.

Payment *must* be received by the College prior to registration, or the student will have to make payment at the Financial Services Office during registration. Students are not permitted to attend class without making satisfactory financial arrangements.

Late Payment Fees. Tuition and fees are due before classes start for each term. A late payment fee of 1% per month is assessed on all outstanding balances.

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

When a student fails to meet financial obligations, Alma College reserves the right to withhold the issuance of grades, transcripts and diplomas, and to suspend a student until the obligations are met. Unpaid balances on inactive student accounts will be referred to a collection agency. The student has responsibility for all costs and fees associated with the collection of the debt.

Financial Aid. Any financial aid other than a work-study grant awarded by the College for the entire year will be prorated; 50% to be available Fall Term and 50% to be available Winter Term. A work-study grant may not be deducted from charges because this aid represents funds to be earned during the year. Scholarships and grants awarded by organizations other than Alma College will not be credited until actually received. The Director of Financial Aid must be notified of any scholarship or grant awarded by organizations and agencies other than Alma College.

Withdrawals from College. Students who wish to withdraw from Alma College must complete the withdrawal process by contacting the Center for Student Opportunity. If this process is not completed, students will forfeit their deposits and refunds. The College assumes that students beginning a term intend to complete it. Students who leave during a term without completing the withdrawal process may receive failing grades for course enrollments and will be responsible for any tuition, and room and board charges for the term.

Withdrawal Refund Policy. Tuition, room fee and student activity fee are refunded according to the following table.

Refunds for Fall and Winter Terms	
Withdrawal During Calendar Week No.	Percentage of Tuition Refundable
1	90%
2	85%
3	80%
4	70%
5	65%
6	60%
7	50%
8	45%
9	40%
10 and after	No Refund

College scholarships, grants and/or loans received by the student will be refunded on a comparable percentage basis.

Refunds for other non-College financial aid will be made in accordance with the rules and regulations applicable to those programs.

Refund of Federal Title IV Financial Aid. The Higher Education Amendments of 1998 require that when a student withdraws before completing 60% of the term, the institution must determine the percentage of Title IV assistance the student has earned. For Title IV financial aid regulations, the withdrawal date is the date on which the student states his or her intention to withdraw from the institution. The percentage 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 Stafford Loan, Subsidized Stafford Loan, Perkins Loan, PLUS Loan, Pell Grant, SEOG and other Title IV programs. The student must either repay the federal overpayment in full or make satisfactory arrangements with either the Alma College Financial Services Office 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.

Full refunds will be made for overload charges up to the second Friday of the term. No refunds for overloads will be allowed after that time.

Room and Board. The room and board charge is refundable on a prorated basis during any term.

Course Fees. Course fees are assessed for courses that incur unusual or extra expense. These expenditures are made on the basis of course registrations. Therefore, no refund is allowed for these fees.

Spring Term. No refund of tuition for withdrawals that occur *after* the fifth day of classes. A full refund is provided for withdrawals during the first five days of classes. There is no refund for room charges and the board fee will be prorated. Spring Term trip fees will be refunded only if the trip costs, such as airlines, hotels and other travel fees can be recovered.

Summer Session. No refund of tuition for withdrawals that occur after the fifth day of the term.

The Family Educational Rights and Privacy Act and Alma College

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.

At its discretion, Alma College may provide directory information in accordance with provisions of the Act. 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 may include (1) student name, address, telephone number, and date and place of birth; (2) e-mail address; (3) major field of study; (4) class schedule and class rosters; (5) identity of parents,

guardians or next of kin; (6) dates of attendance, and degrees and awards received; (7) most recent previous educational agency or institution attended by the student; (8) participation in officially recognized activities and sports; (9) photographs; and (10) weight and height of members of athletic teams. Social security numbers are not considered directory information and will not be released except as required or permitted by the Act. As a general rule, Alma College will not release lists of directory information to off-campus vendors.

The Registrar at Alma College coordinates the inspection and review of procedures related to the protection and release of student education records. For more information about the law and related college policies, go to www.alma.edu/offices/registrar/.

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 Communications in writing within the first two weeks of the first day of class of the fall or winter term. Requests for non-disclosure will be 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.

Requirements for Degrees

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	136 credits
Bachelor of Science	136 credits

68 of the total credits earned must be in designated Science and Mathematics courses; specific requirements for the B.S. degree are available in the Registrar's Office

Bachelor of Science in Nursing	136 credits
Bachelor of Fine Arts	148 credits
Bachelor of Music	136–156 credits

Specific requirements for the B.F.A. and B.M. degrees are listed in the Art and Design and Music sections of the catalog.

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 168 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 earn a Bachelor of Fine Arts degree cannot also earn a Bachelor of Arts degree unless they qualify on the basis of a major other than art.

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 will be awarded as completed.

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.

Alma College Credit

An Alma College credit is equivalent to 0.9 semester hours or 1.33 quarter hours.

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 will not be 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 136–156 credits required for the degree.

Area of Concentration

Each student must declare an area of concentration before the end of the sophomore year by filing the approved form with the Registrar's Office. This area of concentration may be a Departmental Major (at least 36 credits as prescribed by the department), an Interdepartmental Major (56 credits in courses approved by two or more departments and the Educational Policy Committee), or a Program of Emphasis [POE] (56–68 credits in courses selected by the student to meet a specific educational goal as approved by the POE Committee no later than November 15 of the junior year).

The GPA in the area of concentration must be at least 2.0 ("C") for the Bachelor of Arts, Bachelor of Science and Bachelor of Music degrees. For the Bachelor of Fine Arts degree, a 3.0 GPA in the major is required. For teacher certification purposes, a 2.75 GPA is required for all coursework. For additional certification requirements please see the Education Department section of this catalog. Courses outside the area of concentration must total 68 credits.

Programs of Emphasis (POEs)

With the assistance of a faculty advisor, students may design an area of concentration composed of 56–68 credits in courses chosen to meet specific educational or career goals. In recent years, students have graduated with POEs in such fields as arts management, political science, environmental policy and sustainability, and music technology. For more information, contact the Provost's Office.

Comprehensive Evaluation

Most departments require graduating seniors to complete a comprehensive evaluation. Departments will determine the form of the comprehensive evaluation and may require students to take a nationally normed test, such as the Graduate Record Examination. Regardless of the form of the evaluation, the department shall determine the minimum criteria for passing with distinction, passing and failing.

Departments have the discretion to require satisfactory performance on a comprehensive evaluation for completion of the major. Results of evaluations that are non-credit bearing will not be recorded on the student's transcript.

Failure of the comprehensive evaluation will not affect degree status unless a department specifies that successful completion is necessary to satisfy major requirements. Students may retake the comprehensive evaluation only with the permission of the department (or in the case of a POE, the POE Subcommittee of the Educational Policy Committee of the faculty). Only the results of the most recent effort will be recorded.

Double-counting Credits

A student may count up to eight 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.

Note that no course, which counts toward any teaching major or teaching minor, may count toward any other teaching major or teaching minor.

Upper Level Courses

Upper Level Courses, identified by **UL** in the course description, must total at least 44 credits. Students with Interdepartmental Majors or a POE must earn 56 credits in upper level courses.

Spring Term Requirements

Two Spring Term courses must be successfully completed, one of which must be a designated S (“S”) course. Transfer students of sophomore standing or above must successfully complete one Spring Term course and it must be an S course. These designations are found in the Spring Term course booklet published each January.

S courses take advantage of the unique format of Spring Term and cross geographical, cultural or disciplinary boundaries. The Registrar’s Office maintains a list of approved S courses. A term spent off campus in an approved Alma College program (ex. Philadelphia, Germany, France, etc.) may meet the student’s S requirement. The student must still take two Spring Terms.

Residency Requirement

Seniors are required to enroll in classes offered on the Alma campus or through Alma College programs during the Fall and Winter terms immediately prior to graduation.

General Education Goals

The purpose of the general education program is to provide each student with a broad liberal arts education and a solid foundation for all fields of concentration. The following goals have been established for the general education curriculum.

- 1. Depth of knowledge in one or more disciplines.** Through majors, minors and POEs, all students will achieve mastery in one or more focused disciplinary or approved interdisciplinary path(s) of study.
- 2. Breadth of knowledge in the Liberal Arts tradition.** Students will demonstrate comprehension and application of the different ways of knowing in disciplines from the humanities, the social sciences, and the natural sciences.
- 3. Effective communication.** Students will demonstrate abilities to communicate effectively, in a variety of settings and for diverse audiences, through writing, speaking and other forms of expression.
- 4. Development of intellectual tools.** Students will demonstrate skills in critical analysis, quantitative and qualitative analysis and synthesis, scientific methods, and the use of information resources and technology.
- 5. Understanding of societies and cultures.** Students will develop understanding of:
 - the variety in human cultures, societies, histories, and aesthetic and ethical systems both within their own nation and in the larger global community;
 - the interrelationships between different parts of the global community;
 - their own place within and responsibility to this community.

To achieve the major objective of each area outlined above, students must complete courses or demonstrate proficiency in a variety of disciplines. Transferred courses must be approved for application.

Limitations

Of the 136–156 credits required for a degree, students may apply up to the following number of credits from the classes listed here:

8 credits	Music 151, 152, 153, 154, 155, 156, 157, 158 and 159
6 credits	Exercise and Health Science 100–165
8 credits	Theatre/Dance 150, 151 and 152
8 credits	Practicums (numbered 385 or 386 in any department)
24 credits	Independent Study (in a single department)
36 credits	Practicum, Independent Study, Field Experience, Internship or Directed Teaching (in total)

A minimum of 68 credits applied toward graduation must be earned at Alma College or through Alma College-approved programs. Credit earned by enrollment in English as a Second Language, Mathematics 099, or ACP 100 does not count toward the 136–156 credits required for graduation.


Literacies

Alma College assumes that incoming students will have developed the basic skills for reading, listening and studying to a level adequate for success at the beginning level of college. Programs are available to support students who wish to improve their skills in these areas.

Composition

The writing competency of entering students is evaluated and first year students are required to enroll in an English composition class during their first or second term. Most students demonstrate proficiency by completing ENG 101 with a “C” (2.0) or better grade. Exceptionally qualified first year students (as determined by ACT English sub-scores) may choose ENG 201 in place of ENG 101.

As a requirement for graduation, each student will successfully complete 16 credits of designated Quill writing courses. These credits will include ENG 101 (or its equivalent) during the first year of residency, as well as at least one upper level Quill course (2 or 4 credits) in the student’s major field of study.

By definition, a Quill course is designed to improve the quality of student writing. To qualify as a Quill course, at least 25 percent of the final course grade must be based on written work, and at least 15 percent of the final course grade must be based on written work that has been submitted, evaluated, revised and resubmitted for final evaluation. In this catalog, Quill courses are marked with a .

Mathematics

All students are required to successfully complete at least four credits of college-level mathematical or computational science coursework as part of the Distributive Requirements listed on the following page. To ensure that all entering students are prepared for college-level work in mathematics, the College will determine the mathematical competency level of all entering freshmen and transfer students. Students who are not exempt on the basis of a qualifying ACT Mathematics sub-score are required to take a placement exam to determine a recommended initial course. MTH 101 (or demonstrated competency) is a prerequisite for many other courses. Credit for MTH 099 does not count toward the minimum degree requirements.

Guide to General Education Distributive Requirements

To provide a broad education that includes knowledge, skills and understanding, the College requires that candidates for all degrees successfully complete the following:


I. First Year Seminar **2 credits**

Minimum of 2 credits for all students entering Alma College as first year students with fewer than 25 credits. Course is typically taken during the first term.

II. Writing Proficiency **16 credits**

ENG 101, 201, or 202 with a grade of "C" or better, plus 12 additional credits of Quill writing courses. One of these courses must be in the major. Quill courses are designated with a .

III. Second Language/International Awareness **8 credits**

One 4-credit course in a second language plus one of the following: an additional 4-credit course in the same or another second language, a term of study in a foreign country, or a 4-credit course with non-U.S. or comparative international content or perspective. In this catalog, Second Language/International Awareness courses are marked with a .

IV. Distributive Requirements **36 credits**

At least 12 credits in each of the following three divisions with no more than 4 of these credits from any one subject area as designated by three-letter prefix. Practicum and independent study credits cannot be counted toward this requirement.

Arts and Humanities (AH) 12 credits

12 credits (no more than 4 credits from any subject area) chosen from:

All courses in ART, COM, MUS, PHL, REL, THD

All ENG courses at the 110 level or higher

All language courses at the 112 level or higher

All HUM courses at the 110 level or higher

Social Sciences (SO) 12 credits

12 credits (no more than 4 credits from any subject area) chosen from:

All courses in ECN, HST, POL, SOC, ANT

A total of 4 credits from SOC and/or ANT may count towards the SO distributive

Natural Sciences (NS) 12 credits

At least 4 credits in each of the following three areas; must include at least two laboratory courses from different subject areas.

NS-1 Life Sciences: 4 credits

All courses in BCM, BIO, PSY

ENV 105

IPH 212, 214, 215, 220, 224, 225, 226, 327, 328, 331, 340, 344, 401, 428, 430

NS-2 Physical Sciences: 4 credits

All courses in AST, CHM, GEO, PHY

ENV 110, PSC 101

NS-3 Mathematics/Computation: 4 credits

CSC 120 or higher, MTH 110 or higher, PHL 303, PSY 220

Courses of Instruction

Courses of instruction are described on the following pages. Most courses numbered 100-199 are beginning level although some departments begin introductory work at the 200 level. Usually, 100- and 200-level courses are open to all students unless otherwise indicated by prerequisites. Most 300- and 400-level courses are upper level work for which prerequisites are a necessity. Not all upper level courses are offered every year; they are frequently alternated with others and offered every other year.

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 and Courses of Instruction

Humanities

Art and Design
Chinese
Communication
English
French
German
Greek
Hebrew
Humanities
Latin
Library Science
Music
New Media Studies
Philosophy
Religious Studies
Spanish
Theatre and Dance
Women's and Gender Studies

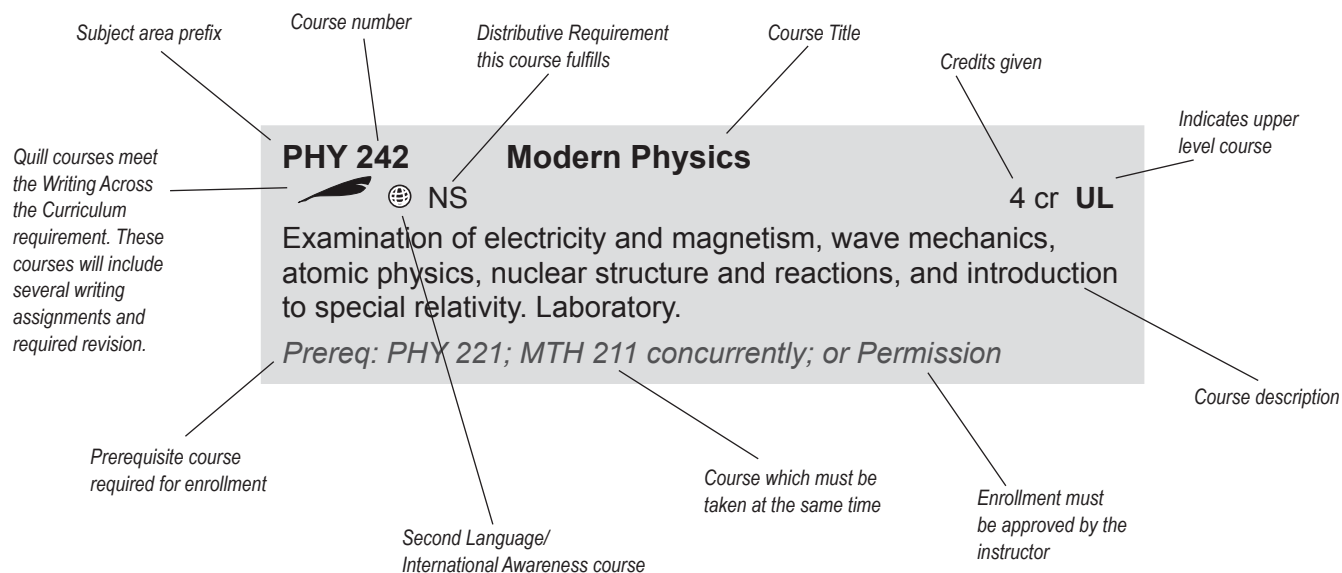
Natural Sciences

Astronomy
Athletic Training
Biochemistry
Biology
Biotechnology
Chemistry
Cognitive Science
Computer Science
Environmental Studies
Geology
Health Studies
Integrative Physiology and Health Science
Mathematics
Nursing
Physics
Psychology
Public Health

Social Sciences

American Studies
Anthropology
Business Administration
Economics
Education
Foreign Service
Geography
Gerontology
History
Political Science
Public Affairs
Sociology

Guide to Understanding Course Listings



General Studies

First Year Seminar (FYS)

As part of the General Education curriculum, first year students entering with fewer than 25 credits are required to successfully complete a minimum of two credits in a First Year Seminar.

FYS 101 First Year Seminar

2-5 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.

Honors Program (HNR)

Courses with this designation are open to students accepted into the Alma College Liberal Arts and Sciences Honors Program.

HNR 180A Honors Seminar I

2-4 cr

Course explores variable topics from a multidisciplinary and integrative perspective while addressing essential issues of liberal arts education. Open to first-year students in the Alma College Liberal Arts and Sciences Honors Program. Offered Winter only.

HNR 280A Honors Seminar II

2-4 cr

Second course available to students accepted into the Alma College Liberal Arts and Sciences Honors Program. Offered Winter only.

HNR 480 Senior Honors Seminar

2-4 cr **UL**

Capstone course for the honors program.

Non-Departmental (STC)

A number of non-Departmental courses are offered each Spring Term, in addition to standard departmental offerings. Previously approved non-departmental courses are listed below, however, new courses may be approved each year. These courses do not count toward departmental majors. A listing of Spring Term course offerings is issued each January.

STC 001 Andean Advent - Lang, Cult. Hist, Peru

SP SL

4 cr

Students learn and use the Spanish language by participating in classes at the Academia taught by qualified native teachers. Ability level is tested upon arrival, and classes are tailored to each student's need. Cultural immersion and language skills are enhanced by placement with helpful and caring host families. A service learning component places students in local schools, hospitals, and other locations to assist the less fortunate people of Cusco. Students work closely with trained mentors and experience the rewards of serving others. Visits will include the Incan Complex Sacsayhuaman (head of the Puma), Machu Picchu, Lake Titicaca, Colca Canyon (Andean Condor photo ops), and Arequipa (the "White City").

STC 003 Cross-Cultural Learning in Scotland

4 cr

International experience emphasizes active involvement with Scottish people both at home and at work. Students will carry out a research project which takes advantage of the site.

STC 005 Cross-Cultural Learning Seminar

4 cr

Interdisciplinary cross-cultural learning experience offered in a significantly different culture. Consideration of the history, social structure, and geographic setting of the culture. Participation in community-oriented service. Location/country varies.

STC 009 The Holocaust: Causes and Legacies

4 cr

Team-taught service learning course. Exploration of causes and legacies of the Holocaust. Includes restoration of a Jewish cemetery in Poland. Through interaction with members of a local Jewish community and visits to former centers of Jewish culture and tradition (Berlin, Prague, Krakow), students gain first-hand experience.

STC 012 New Zealand Experience

4 cr

Students spend Spring Term studying natural history, flora and fauna, economics, politics, culture and other aspects of New Zealand.

STC 014 Bustle & Grit of China and Its People

4 cr

Explore how one of the world's most rapidly growing economies has affected the daily lives and ancient traditions of citizens in different parts of China, and the roles those citizens now play in the global economy.

STC 017 Service Learning and Relief Efforts

4 cr

Service learning course. Introduction to relief efforts of local and global non-profit organizations (American Red Cross, United Way, Habitat for Humanity, Community Cafe and Hands to Honduras). Students perform service for local organizations, complete a service project and construct Web pages about their experiences. Journal required. Location varies.

American Studies (AMS)

Minor Requirements

1. Thirty credits total. No more than eight credits that have been applied toward another major or minor may be applied to the AMS minor.
2. Core: 22 credits which must include AMS-101, 102 and 301, plus four courses from the following list (no more than one course per department): ECN-201; ENG-260 or 261; HST-104, 105, 180A or 228; POL-101; and SOC-101.
3. Advanced electives: eight credits (two courses) from the following list (no more than one course per department): ART-250; ENG-361 or 366; HST-277, 323, 325, or 326; POL-231, 325 or 336; and SOC-241 or 380A; 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 subject to approval of the 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)."
Prereq: First-year or Sophomore Standing

AMS 102 Perspective American Experience

2 cr

Focuses on seminal sources for deepening one's perspectives on "America."
Prereq: First-year or Sophomore Standing

AMS 301 American Studies Seminar

2-4 cr **UL**

Open only to students who have completed or are concurrently enrolled in the completion of 24 credits toward the AMS minor.
Prereq: AMS 101 and 102

Anthropology (ANT)

Anthropology courses, as designated by the three-letter prefix ANT, are offered through the Sociology and Anthropology

Department.

Anthropology Major Requirements

- Thirty-six credits which must include:
 - ANT-111, 212, 213, 214, and 498.
 - Sixteen credits chosen from ANT-180, 215, 216, 217, 280, 311, 312, 315, 380, 385, 386, 499 or 500; up to four preapproved credits from other disciplines appropriate to the student's sub-disciplinary interests. No more than four credits of approved ANT-180 may count towards the major.
- One required cognate course: SOC-101
- The comprehensive evaluation for the major is successful completion of ANT-498.

Anthropology Minor Requirements

- Twenty-four credits which must include:
 - ANT-111 and 498.
 - Four credits chosen from ANT-212, 213 or 214.

Four credits from SOC and/or ANT, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Social Sciences.

ANT 111 Introduction to Anthropology

SO 4 cr
Introduction to the holistic study of human kind. Development, organization, and functioning of cultures, as well as the relationship between biology and culture. (Formerly offered as SOA-111).

ANT 180 Topics in Sociology

SO 1-8 cr
Investigation of a selected topic. May be taken only once for credit towards the SOC or ANT major. (Formerly offered as SOA-180).

ANT 212 Intro to Cultural Anthropology

SO 4 cr UL
Study of the development and variety of human cultures, or non-genetic adaptations to natural and social environments. Using a variety of theoretical perspectives, explore a range of contemporary and recent historic cultures to gain an appreciation of diversity of human world views and life ways. Investigate the process and effects of globalization. (Formerly offered as SOA-212).

Prereq: SOC-101 or ANT-111

ANT 213 Principles of Archaeology

SO 4 cr UL
A basic introduction to the history, theories and methods of anthropological archaeology. Issues of stewardship, accountability, social relevance, communication, preservation, repatriation and real world problem solving are integrated into the nuts and bolts of archaeological research. Opportunities for hands-on, post-excavation archaeological laboratory research. ANT-111 recommended. (Formerly offered as SOA-213).

Prereq: ANT-111

ANT 214 Fund. of Biological Anthropology

SO 4 cr UL
Focus on the physical nature of humankind and the relationship between mind-body-culture. Historic and current theoretical and methodological approaches to the investigation of the human body, its functions, and evolution. Methods and techniques used by paleontologists to investigate ancient hominids and their behavior. Examine current issues such as human demography, "race," forensics, epidemiology, stem cell research, genetics. (Formerly offered as SOA-214).

Prereq: ANT-111 ; BIO-121 or BIO-202

ANT 215 Michigan Archaeological Fieldwork

SO SL 4 cr UL
Survey and excavation of a local archaeological site. Field methods, record keeping, preservation of finds, laboratory experience, and public education. Includes classroom instruction, field, and laboratory work, and a service-learning component. Course fee. (Formerly offered as SOA-215).

Prereq: ANT-111, ANT-213, or ANT-312 recommended

ANT 216 Ethnobotany

SO 4 cr UL
Ethnobotanical and paleoethnobotanical approach to relationships between plants and human culture. Philosophical, ethical and technological perspectives of traditional and Western attitudes toward human-plant interactions. Issues of land-use rights, biodiversity, global stewardship and intellectual property rights. Combined lecture and seminar format. (Formerly offered as SOA-216).

Prereq: ANT-111

ANT 217 Medical Anthropology

SO 4 cr UL
An examination of the interplay between culture and medicine in a global context. Cross-cultural notions of healing, illness and medicine will be explored. Ethnography of medical practices, health disparities and policy implications will be examined.

Prereq: ANT-111 or Permission

ANT 280 Topics in Anthropology

SO 2-4 cr UL
Examines special subjects in Anthropology. (Formerly offered as SOA-280).

Prereq: SOC-101 or ANT-111

ANT 311 Indigenous Cultures

SO 4 cr UL
A cross-cultural study of indigenous peoples around the globe. Major themes such as colonialism, sovereignty, language, belief systems and identity are examined through deep reading of specific ethnographic case studies. (Formerly offered as SOA-311).

Prereq: ANT-111 or ANT-212

ANT 312 North American Archaeology

SO 4 cr UL
Focus on major prehistoric and historic North American cultures as revealed through archaeology and representative archaeological sites. Special emphasis on Michigan and the Midwest. Opportunities for hands-on post-excavation laboratory research. (Formerly offered as SOA-312).

Prereq: ANT-111 or ANT-213 or Permission

ANT 315 Michigan Archaeological Fieldwork

SO 4 cr UL
Research from peer-reviewed and/or primary sources, application of research to data from local sites resulting in written report, exhibition, or public presentation. Supervision of field crews in Spring Term excavation and survey program. Intended for students with experience in, and serious commitment to, archaeological research. (Formerly offered as SOA-315).

Prereq: ANT-215 or Permission;

ANT 380 Topics in Anthropology

SO 2-4 cr UL
Examines special subjects in Anthropology. (Formerly offered as SOA-380).

Prereq: SOC-101 or ANT-111

ANT 385 Anthropology Practicum

SO 4 cr UL
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 four credits. Includes paper report. (Formerly offered as SOA-385).

Prereq: Permission.

ANT 498 Research Seminar-Anthropology

SO 2-4 cr UL
Designed as a culminating experience for Anthropology majors and minors. Emphasizes student synthesis and application of cumulative anthropological knowledge. Students facilitate classes and engage in an original research project culminating in a public presentation of their work. (Formerly offered as SOA-398).

Prereq: ANT-111 and 12 UL credits of ANT or Permission.

ANT 499 Anthropology-Independent Study
 SO 2-4 cr **UL**
 Supervised reading or project in special areas of anthropology.
 (Formerly offered as SOA-499).
Prereq: Permission.

ANT 500 Anthropology-Senior Thesis
 SO 4 cr **UL**
 Designed for Senior Anthropology majors with the consent of the
 Department. Program of empirical and theoretical research.
 (Formerly offered as SOA-500).

Art and Design (ART)

Three major programs are offered by the Art and Design Department. The Bachelor of Fine Arts (B.F.A.) degree is a pre-professional program in studio art or design. The B.F.A. is offered in the areas of ceramics, drawing, graphic design, digital art, painting, photography, printmaking, sculpture and three-dimensional design. The Bachelor of Arts (B.A.) degree program provides a more general study suitable for those wishing to combine their study of art with other liberal arts disciplines. The teaching major (B.A. with LQ comprehensive K-12 certification) is combined with a major in Secondary Education to prepare those planning to teach in the public schools.

Bachelor of Fine Arts Degree Requirements

1. Seventy-two credits in Art which must include ART-101, 121, 122, 220 or 223, 226, 227, and 500. An upper level quill course in the major is required for graduation.
2. Twelve credits of drawing studio including ART-101, 227 and an advanced drawing course from the 390-490 series or its equivalent.
3. A coherent area of concentration of at least 20 credits in Art made up of courses at the 200-400 level.
4. Twelve credits of Art History including ART-112, four credits of Art History from ancient art (Art Before 1300) and at least one four-credit, upper level Art History course.
5. Students must retain their portfolio of artwork created throughout their college career in order to participate in ART-500A/500B and the senior exhibition.
6. The capstone experience, composed of three essential consecutive components, is to be completed during the thesis exhibition year: ART-500A/500B; a senior exhibition acceptable to the Department; and a successful completion of your Advisory Board Review.
7. A 3.0 GPA in Art courses.
8. Acceptance to this program requires the candidate to submit a portfolio after completing 24 studio credits and to have it approved by the Department. This should be done no later than December of the junior year. The Department reserves the right to review your portfolio for acceptance into the program if the major is declared during the junior year or the overall GPA is less than 3.0.
9. A total of 148 credits.
10. A B.F.A. in a design field must include ART-230 in addition to the courses listed above.

Bachelor of Arts (Art Major) Degree Requirements

1. Thirty-six credits in Art which must include ART-101, 121, 122, 220 or 223, 226, and 500; eight credits of Art History including ART-112 and at least one four-credit upper level Art History course. An upper level quill course in the major is required for graduation.
2. Students must retain their portfolio of artwork created throughout their college career in order to participate in ART-500A/500B and the senior exhibition.
3. The capstone experience, composed of three essential consecutive components, is to be completed during the thesis exhibition year: ART-500A/500B; a senior exhibition acceptable to the Department; and a successful completion of your Advisory Board Review.
4. The Department reserves the right to review your portfolio for acceptance into the program if the major is declared during the junior year or the overall GPA is less than 2.5.

Art Minor Requirements

Twenty-four credits including two courses from ART-101, 121, or 122; two courses from Art History; and two studio courses from the 200-400 level.

Art History Minor Requirements

Twenty-four credits of Art History, which must include:

1. ART-111 and 112.
2. Four upper-level Art History courses chosen from ART-250, 280 (which may be taken more than once for credit if under different topics), 341, 342, 343, 344, 345, 346, 348, 349, 385, 399, 400 or other approved course. Students may substitute up to four upper-level credits from other related disciplines with prior departmental approval.

Program Considerations for Art History Minor

Students who have had little or no studio experience are strongly encouraged to complete at least one studio course from the 100-200 level series.

Because graduate programs in Art History typically require proficiency in at least two foreign languages, students who are considering advanced studies in this discipline should plan to include at least four semesters of foreign language coursework in their curriculum.

B.A. or B.F.A. candidates in ART may count up to eight credits toward both the major and the Art History minor requirements.

Completion of a senior thesis is strongly encouraged if student is considering graduate school.

Teacher Certification Requirements

1. Forty-eight credits in Art which must include ART-101, 121, 122, 220 or 223, 226 and 500; three upper level studio courses in one studio area (these may include 220, 223, or 226); 111, 112, 345, and 346. **Note:** Candidates for the 72-credit B.F.A. in Art and Design will follow the requirements listed for that degree with the addition of a fourth course in Art History, which will be substituted for one studio elective outside the student's area of concentration. For Teacher Certification, no substitutions allowed for required courses.
2. Fourteen credits in Art Education which must include EDC-306, 345, 354 and 445A. Art majors will student teach in a secondary, grade 7-12 classroom and must take EDC 445A either in the term prior to, or in their student teaching term.
3. A second major in Secondary Education which includes other professional education courses specified by the Department of Education in the requirements for secondary certification. **Note:** Professional education course requirements reflect Michigan Department of Education standards for teacher education and are subject to change.

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.

Four credits from ART, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.


ART 101 Drawing Studio

AH 4 cr
 Exploration of graphic media with emphasis on developing drawing skills. Course fee.

ART 111 Art History I

 AH 4 cr
 Survey of human artistic achievement from its earliest visual record to the Medieval Period. Course fee.

ART 112 Art History II

 AH 4 cr
 Survey of art from the Renaissance to the 20th century. Course fee.

ART 121 2-Dimensional Design

AH 4 cr
 Introduction to the elements and principles of design as the foundation needed to create conceptually and aesthetically resolved visual problems in the plastic, graphic and media arts. Course fee.

ART 122 Tools & Materials
AH 4 cr
Introduction to studio work with emphasis on three-dimensional theory and the use of basic tools and techniques. Art majors are given first preference for enrollment. Requires instructor permission. Course fee.
Prereq: Art majors given first preference for enrollment.

ART 180 Topics in Studio Art
AH 3-8 cr
Topics in studio art. Subject varies according to instructor's field. Course content and artist announced in advance. May be repeated for credit if course content covers a different topic. May require a course fee.

ART 220 Sculpture Studio
AH 4 cr UL
Exploration of sculptural form through the processes of modeling, carving and assemblage. Consideration of sculptural ideas and imagery from various times and cultures with emphasis on contemporary practices. Day trip to Meijer Sculpture Gardens, Grand Rapids. Course fee.

ART 222 Printmaking Studio
AH 4 cr UL
Exploration of relief, intaglio and planographic techniques with emphasis on works of art in multiples. Some attention to the history of the print as art, the craft of printing, and print preservation and connoisseurship. Course fee.

ART 223 Ceramics Studio
AH 4 cr UL
Introduction to direct forming processes; handbuilding and wheel-throwing. Investigation of the uses of slips, glazes and other methods of surface enrichment. Participation in class kiln firings. Course fee for clay.

ART 224 Photography Studio
AH 4 cr UL
Introduction to basic 35mm traditional and digital photography techniques. Students will develop and print using traditional black and white film. Scanning and Digital Asset Management techniques will be used as means to edit, manage and archive photographic work. All final images are gelatin silver prints created using traditional wet darkroom methods. Traditional 35mm SLR camera is required. Course fee.

ART 226 Painting Studio
AH 4 cr UL
Introduction to basic procedures, tools and materials for oil and acrylic painting. Emphasis on composition, form and color. Discussion of historical development of all painting media. ART-101 or 121 recommended as preparation for this course. Course fee.

ART 227 Life Drawing Studio
AH 4 cr UL
Introduction to expressive drawing of the human figure including some study of anatomy. ART-101 recommended as preparation for this course. Course fee for cost of models.

ART 230 Graphic Design Studio
AH 4 cr UL
Development of communication skills through the organization of image and text to inform, persuade, identify, or clarify an idea to a specific audience. Students will design works for printed media and Web-based communications. Course fee.
Prereq: ART-101, 121, 224, 232 or NMS-120

ART 231 Raku Ceramics
AH 4 cr UL
An introduction to the history, aesthetics and techniques of raku-fired ceramics. Course fee.
Prereq: Permission

ART 250 Contemporary Art in New York
AH 4 cr UL
Introduction to the major artistic movements and critical theory in the last two decades. Students spend approximately one week in New York City exploring galleries, museums and artists' studios. Seminar includes readings, discussion and a research paper on a special topic. Course fee.
Prereq: Permission

ART 280 Topics in Art History
AH 4 cr UL
Selected topics in the history of art. Subject varies according to instructor's field. Course content and instructor announced in advance. May be repeated for credit if course content covers a different topic. (Past courses include women in art, history of prints, art history in Rome, and world ceramics: London). Course fee.

ART 290 Directed Studio
AH 4 cr UL
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 bookarts, jewelry, watercolor, wheel-thrown ceramics, etc.). Course fee.
Prereq: Permission

ART 299 ART Independent Study
1-4 cr UL
Individual study of a subject in Art or Art History. Course fee may apply.
Prereq: Permission

ART 341 Survey Ancient Art
AH 4 cr UL
Introduction to the arts of ancient Greece and Rome with emphasis on the context in which they were produced. Survey of ancient history, literature and mythology are included to enrich students' comprehension of the artworks. Course fee.

ART 342 Medieval Art
AH 4 cr UL
Introduction to the arts of Medieval Europe, with an emphasis on the context in which they were produced. Survey of Medieval history, literature and religion are included to enrich students' comprehension of the artworks. Course fee.

ART 343 Renaissance Art
AH 4 cr UL
Introduction to the arts of the Renaissance in Northern and Southern Europe, with an emphasis on the context in which they were produced. Surveys of Renaissance history, literature and religion are included to enrich students' comprehension of the artworks. Course fee.

ART 345 Survey of Non-Western Art
AH 4 cr UL
An introduction to the visual arts of India and Southeast Asia, China, Japan, Korea, the Pacific, and the Americas with emphasis on the historical and cultural contexts in which they were created. Course fee.
Prereq: Sophomore Standing

ART 346 Modern American Art
AH 4 cr UL
Survey of American artists, architects and craftsmen from the Civil War period to the present day. Consideration is given to the influences of technology, women and minority artists in the development of American art. Course fee.

ART 380 Topics in Studio Art
AH 4 cr UL
Selected topics in studio art. Subject varies according to instructor's field. Course content and artist announced in advance. May be repeated for credit if course content covers a different topic. (Past courses included advanced illustration, landscape photography and architectural ceramics.) Studio courses taught overseas during Spring Term. Course fee.
Prereq: ART-101, 121, NMS-120 or Permission

ART 385 ART Practicum4 cr **UL**

Designed to provide on-site working experiences in the student's area of interest. Examples of typical practica 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. Practicum arranged with assistance of faculty advisor. Departmental approval is required.

Prereq: ART-101, 111, 112, 121, 122 or Permission

ART 390 Advanced Directed Studio

AH

4 cr **UL**

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. Advanced Directed Studio Projects have been offered in, but are not limited to, the following: Ceramics: wheel-thrown ceramics, ceramic sculpture, glaze chemistry. Drawing: advanced drawing, life drawing, color media, scientific illustration. Graphic Design: corporate/visual identity, brochure design, digital prepress. Painting: advanced painting, color theory, airbrush painting, watercolor. Photography: small and large format camera techniques, color photography. Printmaking: intaglio, lithography, monotype, collagraphy, screenprinting. Sculpture: welded and constructed forms, casting media, arving media. Three-Dimensional Design: furniture design, jewelry, papermaking, fiber. Special Projects: performance art, bookarts, studio practices for teachers, liturgical art. Students may take up to six Advanced Directed Studio Project courses. Consult the Art Students' Miscellany for specific course offerings. Course fee.

Prereq: Permission

ART 399 ART Independent Study4 cr **UL**

Individual study of a subject in Art or Art History. Course fee may apply.

Prereq: Permission

ART 400 Art History Thesis

AH

2-4 cr **UL**

Readings, discussion and research paper on special topics in Art History. Course fee.

Prereq: Permission

ART 490 Advanced Directed Studio

AH

4 cr **UL**

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. Advanced Directed Studio Projects have been offered in, but are not limited to, the following: Ceramics: wheel-thrown ceramics, ceramic sculpture, glaze chemistry. Drawing: advanced drawing, life drawing, color media, scientific illustration. Graphic Design: corporate/visual identity, brochure design, digital prepress. Painting: advanced painting, color theory, airbrush painting, watercolor. Photography: small and large format camera techniques, color photography. Printmaking: intaglio, lithography, monotype, collagraphy, screenprinting. Sculpture: welded and constructed forms, casting media, carving media. Three-Dimensional Design: furniture design, jewelry, papermaking, fibers. Special Projects: performance art, bookarts, studio practices for teachers, liturgical art. Students may take up to six Advanced Directed Studio Project courses. Consult the Art Students' Miscellany for specific course offerings. Course fee.

Prereq: Permission

ART 499 ART Independent Study4 cr **UL**

Individual study of a subject in Art or Art History. Course fee.

Prereq: Permission

ART 500 ART Senior Show

AH

2-4 cr **UL**

Explores all aspects of show preparation, including emphasis on selection and presentation of creative work, publicity, gallery installation, reception and the production of an electronic portfolio. The capstone experience ends with participation in the Senior Exhibit and Advisory Board Critique in the winter semester. All three components (ART 500A/ART 500B, Senior Exhibit, and Advisory Board) must be approved and passed for completion of the BA or BFA. Students must take this course in both the fall and winter term, for a total of 4 credits, during the senior year. Course fee.

Prereq: Permission

Astronomy (AST)

Four credits from AST, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Physical Sciences.

AST 101 Planetary Science

NS2

4 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.

Prereq: MTH-101

AST 112 The Universe

NS2

4 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.

Prereq: MTH-112

AST 225 Astrophysics

NS2

4 cr **UL**

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. Requires enrollment in PHY-221 concurrently.

Biochemistry (BCM)

Major Requirements

- Fifty-six core credits which must include BIO-121 and 204; CHM-115, 223, 224, 230, and 331 or 332; MTH-121 and 122; PHY-112-113 or 121-122; BCM-321, 422 and 430.
- Eight elective credits, with labs, from the subject areas designated below:
 - Four credits of 300-level or above lab coursework in CHM or BCM.** CHM-320, 331,332, 411, or other-department-approved course.
 - Four credits of 300-level or above lab coursework in BIO or IPH.** BIO-301, 307, 308, 319, 320, 330; IPH 401, or other department-approved course.
- If student completes BCM-499, then other department-approved courses may be used to satisfy the above elective requirements. (Ex: 4 credits of CHM-310, 311, 312, 313, or 314 plus 1 credit of BCM 499; BIO-333, 360, IPH-340 plus 1 credit of BCM-499.
- Successful completion of the departmental Senior Comprehensive Examination.

Program Considerations

1. Potential majors are advised to schedule MTH-121 and 122 and PHY-112 and 113 or 121 and 122 in the freshman and sophomore years so they may take CHM-331 or 332 in the junior year.
2. Take note that BCM-422 and 430 are offered in the winter term of alternating years.
3. This is an excellent major for pre-medical students, but additional electives are strongly advised.
4. Students bound for graduate school should make careful course selections to support their area of emphasis. Additional course work in biology, chemistry and mathematics is desirable. It is strongly-advised that participation in research begin at least in the Junior year.
5. Completion of an independent research project culminating in a senior thesis is encouraged.
6. Students who declare a Biochemistry major may not elect a second major in Chemistry.

Four credits from BCM, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Life Sciences.

BCM 180 Topics in Biochemistry

NS1 1-4 cr

This lab-only course is for students curious for an investigational experience that uses DNA/RNA methods. You will be teamed with a junior/senior student enrolled in BCM/BIO 430, thus providing a peer-mentored experience. This class is only available during drop/add. Course fee.

Prereq: Permission

BCM 319 Toxicology

NS1 4 cr **UL**

The science and art of toxicology has ancient origins, such as our use of venoms for hunting and plant extracts for assassinations. Modern toxicology is the study of the adverse effects of xenobiotics, a general term applied to any chemical which is foreign to the organism under investigation. This field is covered in four units: general principles, system responses, toxic agents, and environmental toxicology. In addition to one or two daily lectures, students participate in an investigative laboratory using the approaches of chemical analysis, cell culture, and organismal response. Course fee.

Prereq: BIO-121 and CHM-230


BCM 321 Biochemistry

NS1 4 cr **UL**

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.

Prereq: BIO-121, CHM-224 and CHM-230

BCM 422 Advanced Biochemistry

 NS1 4 cr **UL**

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.

Prereq: BCM-321

BCM 430 Molecular Genetics

NS1 4 cr **UL**

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.

Prereq: BCM-321 and BIO-204

BCM 499 Biochemistry Independent Study

1-4 cr **UL**

Independent research in biochemistry resulting in a written report. Course fee.

BCM 500 Senior Thesis

4 cr **UL**

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

Prereq: Permission

Biology (BIO)

Major Requirements

1. Twenty credits of Biology core: BIO-121, 202, 203, 204, 290 and 490.
2. Electives in either General Studies or an Area of Concentration (indicated on transcript).
 - a. General Studies:
 - Eight credits of the following electives: BIO-302, 307, 308, 315, 361, 385, or 430.
 - Eight credits of additional upper level BIO electives which may include Spring Term and/or independent study credits.
 - b. Pre-Medicine/Health: BIO-205, 226 or 307, 301, 308, and 330.
 - c. Pre-Veterinary Medicine: BIO-301, 305, 307, 308, and 361.
 - d. Cell and Molecular: BIO-226 or 307, 301, 308, 330, and 430.
 - e. Ecology and Evolution: BIO-302, 305, 322, 360, and 361.
3. Completion of the MFAT examination.

Teaching Major

Thirty-six credits from the Department which must include the following:

1. Twenty credits of BIO core: BIO-121, 202, 203, 204, 290, and 490.
2. Four credits of BIO-302.
3. Twelve credits of upper level BIO electives.
4. Completion of MFAT examination.

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 PHY-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 either through independent study or a summer internship at Alma College or another institution. For those students considering graduate school and/or a career in research, multiple experiences are highly recommended.

Minor Requirements

Twenty-four credits which must include BIO-121, 202, 203; and 12 credits of upper level BIO electives.

Teaching Minor Requirements

Twenty-four credits which must include BIO-121, 202, 203, 204, 290, 302, and 490.

Four credits from BIO, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Life Sciences.

BIO 101 Biology for Non-Majors

NS1 4 cr

Study of living organisms, biological processes and classification. Current topics in biology are emphasized. For the non-major. Laboratory. Course fee.

BIO 121 General Cell Biology

NS1 4 cr

Study of basic biological processes, mostly at the cellular level, including the chemical basis of life, cellular structure and function,

heredity, reproduction and the genetic basis of evolution. Required for BIO, BCM, BTC, and IPHS majors. Laboratory. Course fee.

BIO 125 Molecular Techniques
NS1 4 cr
Introduction to basic molecular biology laboratory techniques. Prepares students for upper level courses and summer research internships in the molecular sciences. Spring Term offering. Laboratory. Course fee.
Prereq: First-year or Sophomore Standing

BIO 180 Biological Topics
NS1 4 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 202 General Botany
NS1 4 cr UL
An introduction to the study of plant life, from algae through flowering plants, and fungi. Plants will be studied in relation to the environment and human activities. Morphology, ecology, and evolution will be stressed with some identification and collection of local flora. Laboratory. Course fee.

BIO 203 General Zoology
NS1 4 cr UL
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.

BIO 204 Genetics
NS1 4 cr UL
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.
Prereq: BIO-121 and Sophomore Standing

BIO 205 Developmental Biology
NS1 4 cr UL
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.
Prereq: BIO-121

BIO 226 Human Physiology II
NS1 4 cr UL
Study of physiological functions of the human body and the relationship of systems to the maintenance of homeostatic balance. Includes applications of physiological principles to practical issues in medicine and physical performance. Laboratory. Course fee. (Cross-listed with IPH-226)
Prereq: BIO-121 and IPH-225

BIO 280 Topics in Biology
NS1 2 cr UL
Biological topics selected by the instructor. May be taken more than once for credit.
Prereq: BIO-121 or Permission

BIO 290 Sophomore Seminar
NS1 2 cr UL
Designed to show students how to plan and prepare a portfolio for their senior capstone presentation. Library skills, basic statistics and experimental design will be emphasized. Course fee.
Prereq: BIO-121 and Sophomore Standing

BIO 299 Biology Independent Study
1-4 cr UL
An opportunity for exceptional freshmen and sophomores to work directly with faculty on a research project. Typically, students help gather data and participate in the analysis of data. Introduction to

the research process. Course fee.
Prereq: Permission

BIO 301 Cell Biology
NS1 4 cr UL
Study of the fine structure of eucaryotic and procaryotic cells, the chemical composition and organization of cells, and the particular organization and function of cell organelles and structural components. Laboratory. Course fee.

BIO 302 Ecology
NS1 4 cr UL
Investigation of population, community and ecosystem structure, dynamics and energetics. Laboratory and field studies. Course fee.
Prereq: Sophomore Standing or Permission

BIO 305 Comparative Vertebrate Anatomy
NS1 4 cr UL
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.
Prereq: BIO-203

BIO 307 General Physiology
NS1 4 cr UL
Study of the function of various animal organ systems, especially the ways in which they interact to maintain homeostasis of the individual. Most examples are from mammalian systems. Laboratory. Course fee.
Prereq: Sophomore Standing or Permission

BIO 308 Microbiology
NS1 4 cr UL
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.
Prereq: Junior or Senior Standing or Permission

BIO 309 Aquatic Biology
NS1 4 cr UL
The physical, chemical and biological factors that affect fresh water organisms. Comparison of streams, rivers and lake habitats of Michigan. Laboratory. Course fee.
Prereq: BIO-121 or Permission

BIO 315 Behavioral Ecology (Field Studies)
NS1 4 cr UL
Field studies of groups of organisms in habitats ordinarily not accessible during the Fall or Winter term. A recent topic has been marine invertebrates of Jamaica. Spring term offering. May be elected more than once for credit. Course fee.
Prereq: Permission

BIO 319 Toxicology
NS1 4 cr UL
The science and art of toxicology has ancient origins, such as our use of venoms for hunting and plant extracts for assassinations. Modern toxicology is the study of the adverse effects of xenobiotics, a general term applied to any chemical which is foreign to the organism under investigation. This field is covered in four units: general principles, general responses, toxic agents, and environmental toxicology. In addition to one or two daily lectures, students participate in an investigative laboratory using the approaches of chemical analysis, cell culture, and organismal response. Course fee.
Prereq: BIO-121 and CHM-230

BIO 320 Medical Botany
NS1 4 cr UL
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.
Prereq: BIO-121 and CHM-223

BIO 322 Plant Physiology
NS1 4 cr **UL**
Study of seed plant biology with an emphasis on relationships of physiology, anatomy and morphogenesis. Laboratory. Course fee.
Prereq: BIO-121 and 202

BIO 330 Immunology
NS1 4 cr **UL**
Examination of the immune system and its role in disease. Emphasizes current research articles and experimental procedures. Laboratory. Course fee.
Prereq: BIO-204

BIO 333 Cancer Biology
NS1 4 cr **UL**
Basic concepts and principles of tumor evolution and behavior including an introduction to oncogenes, tumor-suppressors and genome-maintenance genes, carcinogens, and their roles in cancer initiation and progression, and a detailed look into several of the more common types of malignancies.
Prereq: BIO-204

BIO 344 Human Dissection
NS1 2 cr **UL**
Gross anatomy and dissection of the human body. Laboratory. Course fee.
Prereq: BIO-226 or 307 or Permission

BIO 360 Evolution
NS1 4 cr **UL**
Study of evolution as it applies to aspects of the biological sciences. Topics include history, mechanisms of evolution and population genetics. Laboratory. Course fee.
Prereq: BIO-121

BIO 361 Animal Behavior
NS1 4 cr **UL**
Animal behavior is examined from an ecological and evolutionary perspective. Topics include reproduction, habitat selection, foraging and fighting behaviors. Laboratory. Course fee.
Prereq: BIO-120 or 203 or Permission

BIO 380 Topics in Biology
NS1 2-4 cr **UL**
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.
Prereq: BIO-121 or Permission (additional prerequisites vary with topic)

BIO 385 Biology Practicum
2-4 cr **UL**
Biological knowledge is applied to an outside working situation. Pass/fail only.
Prereq: BIO-121 and Permission

BIO 399 Biology Independent Study
1-4 cr **UL**
An opportunity for exceptional first-year and sophomore students to work directly with faculty on a research project. Typically, students help gather data and participate in the analysis of data. Introduction to the research process. Course fee.
Prereq: Permission

BIO 430 Molecular Genetics
NS1 4 cr **UL**
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. (Cross-listed with BCM 430.)
Prereq: BIO-204 and BCM-321, or Permission

BIO 490 Senior Capstone Seminar
NS1 2 cr **UL**
Students will present the results of their biology portfolio in a public forum.

Prereq: BIO-290 and Senior Standing or Permission

BIO 499 Biology Independent Study 1-4 cr **UL**
Individual study of a particular subject in biology of an experimental or analytical nature. It may be a synthetic library analysis at the junior or senior level. Course fee.
Prereq: Permission

BIO 500 Senior Thesis 4 cr **UL**
Independent laboratory research of an original problem culminating in a thesis. Course fee.
Prereq: Permission

Biotechnology (BTC)

Major Requirements

1. Core: 54 credits. Each student must take 20 credits of CHM-115, 223, 224, 230 and BCM-321; 8 credits of BIO 121 and 204; 8 credits of PHY-112 or 121, and 113 or 122; 8 credits of Computation including 4 credits of MTH at 112 or higher, and Biostatistics; 4 credits of BTC Techniques; 6 credits of Journal Club BTC-101, 201, and 301.
2. Successful completion of the capstone experience, BTC-401 (2 credits).
3. Electives: 12 credits. Each student must take at least 4 additional credits from BTC offerings and 8 credits from BIO-207 or IPH-226; BIO-308, 330; BCM-430; IPH-340; PSY-201.
4. Successful qualification for and completion of an intensive summer research experience in an academic or industrial setting.
5. Integrative Electives: 12 credits. Students will take at least 12 biotechnology-related credits outside the natural sciences, which must be approved by the program (See item 6 under Program Considerations).

Program Considerations

1. Students with AP Biology test scores of 5 may elect to receive four credits of BIO-121, thus fulfilling this requirement.
2. Yearly enrollment in a Journal Club offering is the expectation. These are currently provided in the Winter Term.
3. In order to ensure academic options within a four year plan, CHM-115/223 and BIO-121 are desirable first year courses.
4. For maximum benefit, consider enrolling in BTC 180 Molecular Techniques in the first available Spring Term.
5. An off-campus summer research experience is viewed as most valuable.
6. Students are invited to petition the Biotechnology Steering Committee in writing if they encounter new or distinctive offerings that are relevant to the major.

BTC 101 Biotechnology Journal Club 2 cr
Gain familiarity with, and conversancy of 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. Graduating seniors must enroll in BTC-401 and will receive advanced assignments consistent with a capstone experience.

BTC 125 Molecular Techniques 4 cr
NS1
Introduction to basic molecular biology laboratory techniques. Prepares students for upper level courses and summer research internships in the molecular sciences. Spring Term offering. Laboratory. Course fee.

BTC 201 Biotechnology Journal Club 2 cr **UL**
Gain familiarity with, and conversancy of 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. Graduating seniors must enroll in BTC-401 and will receive advanced assignments consistent with a capstone experience.

BTC 280 Biostatistics

4 cr **UL**

Introduction to the analytical methods commonly used in biotechnology and biomedical sciences. Emphasis on the basic concepts of experimental design, quantitative analysis of data and hypothesis testing. Provides a foundation to evaluate information critically to support research objectives and a better understanding of statistical design of experimental trials for biological products/devices.

BTC 299 Research in Biotechnology

1-4 cr **UL**

Students will work independently on a faculty-mentored research project. This typically involves conducting experiments, gathering data and analyzing data.

Prereq: Permission

BTC 301 Biotechnology Journal Club

2 cr **UL**

Gain familiarity with, and conversancy of 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. Graduating seniors must enroll in BTC-401 and will receive advanced assignments consistent with a capstone experience.

BTC 320 Medical Botany

NS1

4 cr **UL**

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.)

Prereq: BIO-121 and CHM-223

BTC 399 Research in Biotechnology

1-4 cr **UL**

Students will work independently on a faculty-mentored research project. This typically involves conducting experiments, gathering data and analyzing data.

Prereq: Permission

BTC 401 Biotechnology Journal Club

2 cr **UL**

Gain familiarity with, and conversancy of 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. Graduating seniors must enroll in BTC-401 and will receive advanced assignments consistent with a capstone experience.

BTC 430 Molecular Genetics

NS1

4 cr **UL**

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.

Prereq: BCM-321 and BIO-204

BTC 430L Molecular Genetics Laboratory

0 cr **UL**

Laboratory for Molecular Genetics BTC 430

BTC 499 Research in Biotechnology

1-4 cr **UL**

Students will work independently on a faculty-mentored research project. This typically involves conducting experiments, gathering data and analyzing data.

Prereq: Permission

BTC 500 Senior Thesis

4 cr **UL**

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

Prereq: Permission

Business Administration (BUS)

Major Requirements

General Business Administration Major

Thirty-six credits which must include the Core Courses: BUS-121, 221, 222 (or BUS 222A and one from 222B, 222C, 222D, 222E, 222F), 225, 309, 323, 333, 440; and 4 credits from BUS-150, 151, 299, 340, 341, 350; 385, 386, 399, 499, or 500. (See also required Cognate Courses.)

Accounting Major

Fifty-two credits which must include the Core Courses (36 credits): BUS-121, 221, 222 (standard 4-credit course or 222 Modular which includes 222A and one from 222B, 222C, 222D, or 222E), 225, 309, 323, 333, 440 and 4 credits from the following: BUS-340, 341, 342 or 442; BUS-150, 151 and/or 350; BUS-385/386; BUS-299/399/499; BUS-500; and 16 additional credits including BUS-321, 322, 331 and 425. (See also Required Cognate Courses.)

Professional Accounting (CPA) Major

Students interested in pursuing our Professional Accounting (CPA) Major can complete the additional coursework required in order to sit for the exam. The State of Michigan requires five years of coursework in order to sit for the CPA exam (168 credit hours at Alma College). **However, with careful planning, a student is able to complete the 168 credit hours in four years at Alma College.** In addition to the courses required for the Accounting Major, students must complete the following courses for the Professional Accounting (CPA) Major: BUS-325, 326 (in place of 225), 422, 426 and 449. (See also Required Cognate Courses.) As part of their cognates, students must also take ECN-201 and MTH-116. Total Credit Hours: 68.

Finance Major

Forty-four credits which must include the Core Courses (36 credits): BUS-121, 221, 222 (standard 4-credit course or 222 Modular which includes 222A and one from 222B, 222C, 222D, or 222E), 225, 309, 323, 333, 440 and 4 credits from the following: BUS-340, 341, 342 or 442; BUS-150, 151 and/or 350; BUS-385/386; BUS-299/399/499; BUS-500; and 8 additional credits selected from the following: BUS-319, 410 or 429. (See also Required Cognate Courses.)

Management Major

Forty-four credits which must include the Core Courses (36 credits): BUS-121, 221, 222 (standard 4-credit course or 222 Modular which includes 222A and one from 222B, 222C, 222D or 222E), 225, 309, 323, 333, 440 and 4 credits from the following: BUS-340, 341, 342 or 442; BUS-150, 151 and/or 350; BUS-385/386; BUS 299/399/499; BUS-500; and 8 additional credits selected from the following: BUS-223, 301, 324, 423, 427, or other management electives. (See also Required Cognate Courses.)

Marketing Major

Forty-four credits which must include the Core Courses (36 credits): BUS-121, 221, 222 (standard 4-credit course or 222 Modular which includes 222A and one from 222B, 222C, 222D or 222E), 225, 309, 323, 333, 440 and 4 credits from the following: BUS-340, 341, 342 or 442; BUS-150, 151 and/or 350; BUS-385/386; BUS-299/399/499; BUS-500; and 8 additional credits selected from the following: BUS-334, 336, 337, 338, 339, 401, 428, 435, 436 or a 4-credit NMS course. (See also Required Cognate Courses.)

Health Care Administration Major (HCA)

Fifty-six credits which must include:

- 40 credits from BUS-121 or 131, 221, 222, 309 or 319, 323 or 329, 328, 385, 440 or 441; IPH-430; and PHL-227 or 229.
- 16 elective credits from BUS-324, 333 or 334, 380, 405, 433, 450; IPH-210, 331, 340; PSY236, 260; or SOC-234.
- Required prerequisites include: BIO-121; ECN-201 and 202; 4 credits from MTH-116, BTC-280, or PSY-220.

4. Note: HCA students do not complete the same Required Cognate Courses as other Business Majors and Minors.

International Business Administration Major (IBA)

Thirty-two credits in Business Administration including BUS-121, 221, 222, 309, 323, 333, 440 and four credits of electives in BUS; 12 credits in Economics including ECN-201, 202, and 331/332; and 24 credits (or proficiency) in a foreign language beginning at the 111 level. (See also Required Cognate Courses.)

Secondary Teaching Major Requirements

Thirty-six credits including BUS-121, 221, 222, 309, 323, 327, 333, 440 and one of the following: 401 or 410. (See also Required Cognate Courses.)

Business Administration Minor Requirements

Twenty-eight credits including BUS-121, 221, 222, 309, 323, 333, and 440.

Cognate courses required for all Business Majors and Minors:

1. ECN-201 or 202;
2. 4 credits of Data/Business Analytics; POL-111 or other course pre-approved by the department.
3. One course from MTH-113, 116, 121 or 341, BTC-280 (Biostatistics), PSY-220 or other courses approved by the department;
4. Business Application Software (2 credits) OR successful completion of appropriate tutorials on <http://www.lynda.com/> or similar web sites;
5. One of PHL-227, 228, 229 or any other ethics course approved by the department;
6. At least one course in COM or NMS or any other communication course approved by the department (students may take any 2 or 4 credit course in either COM or NMS).

BUS 121 Business Foundations

4 cr

General survey course that introduces the students to the various business disciplines. Students will briefly investigate the disciplines of accounting, finance, international business, law, management and marketing and how all of these disciplines are interrelated. The areas of business ethics and social responsibility will also be examined.

BUS 131 Intro to Health Service Management

4 cr

This course is geared toward first and second year students who desire a fundamental understanding of health service management. It will explore a variety of health care settings including hospitals, nursing homes and clinic. Case studies will augment student learning in leadership, motivation, organizational behavior, management thinking, performance and quality improvement, information technology, ethics and cultural competency. This is a required course for the Health Care Administration major.

BUS 150 Entrepreneurs in Action I

1 cr

Preparation to present strategic business cases and planning initiatives at regional and national competitions focused on entrepreneurship and the free enterprise system. Only four credits in total of BUS-150, 151 and BUS-350 count toward the Business Administration major.

BUS 151 Entrepreneurs in Action II

1 cr

Preparation to present strategic business cases and planning initiatives at regional and national competitions focused on entrepreneurship and the free enterprise system. Only four credits in total of BUS-150, 151 and BUS-350 count toward the Business Administration major.

Prereq: Permission

BUS 215 Fundamentals of Law

4 cr UL

Overview of the law and everyday legal situations that are encountered in cross disciplinary professions. Topics covered may include contracts, employment, real estate and leases, criminal

law, torts, financial issues and personal property. Students who took FYS Everyday Law will not be allowed to register for this course. Course fee.

BUS 221 Financial Accounting

4 cr UL

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.

Prereq: BUS-121 or 131 (may be taken concurrently), MTH-101 or equivalent

BUS 222 Managerial Accounting & Decision Making

4 cr UL

Study of accounting in the manufacturing and service sector, cost allocation and analysis, development of cash flow statements and analysis of financial statements. Emphasis on how cost and managerial accounting concepts and methods apply to the decision-making process. Students cannot earn credit for both BUS-222 and BUS-222A-E.

Prereq: BUS-221

BUS 222A Managerial Accounting & Decision Making

2 cr UL

First seven week module of managerial accounting topics, focusing on financial statement analysis, definition of managerial accounting, Cost-Volume-Profit, incremental analysis and decision making, budgeting models, and basics of capital budgeting. Course objective is to provide analysis skills needed by managers. Students cannot earn credit for both BUS-222 and BUS-222 modular (A-E).

Prereq: BUS-221

BUS 222B Decision Models

2 cr UL

Course uses Cost-Volume-Profit and incremental analysis techniques to allow scenario analysis and sensitivity analysis in business decision cases, as well as preparing budget models for operational and capital budgets. Some basic data analytics included. Typical cases will be special orders, add/drop product line, variable/fixed cost shifts, etc. Students cannot earn credit for both BUS-222 and BUS-222 modular (A-E).

Prereq: BUS-221 and 222A

BUS 222C Healthcare Accounting

2 cr UL

Current topics in health care accounting and financial management, including revenue cycle and reimbursement, current status of government programs and regulations, cost accounting techniques relevant to health care, non-hospital providers (nursing homes, physician group), etc. Students cannot earn credit for both BUS-222 and BUS-222 modular (A-E). Elective credit for HCA majors with BUS-222 credit with permission of Department Chair.

Prereq: BUS-221 and 222A

BUS 222D Manufacturing Accounting

2 cr UL

Course focuses on manufacturing accounting techniques and topics including process and job shop accounting, simple overhead allocations, activity based costing allocations. Just-in-time, insource/outsource decisions and capital budgeting. Students cannot earn credit for both BUS-222 and BUS-222 modular (A-E).

Prereq: BUS-221 and BUS-222A

BUS 222E Current Topics in Managerial Accounting

2 cr UL

This second-seven week course in BUS 222 modular (A-E) is reserved for topics of current and special interest as determined by current events and student needs. Course will be offered as needed. Examples include managerial techniques useful in not-for-profits, government, start-ups, or other topics of interest.

Prereq: BUS 221 and BUS-222A

BUS 223 Business Leadership and Society4 cr **UL**

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.

Prereq: BUS-121 or Permission

BUS 225 Legal Environment of Business4 cr **UL**

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.

Prereq: BUS-121 or Permission

BUS 226 Cross-Cultural Studies

4 cr

Study of selected aspects of world business and economics, politics, religion, communication and the exploration of cultural relations across national boundaries. Special focus on the importance of effective cross-cultural relations for global managers and corporations. Locations vary.

BUS 301 Business Communications4 cr **UL**

Preparation for effective communication in the business realm. Emphasis on business writing, presentation skills, and obtaining solid listening skills in business forums. Students will improve professionalism regarding communication that is oral, written and electronic. Other topics include: the report process, business research methods and business etiquette.

Prereq: ENG 101 and BUS 121

BUS 309 Managerial Finance4 cr **UL**

Introduction to the principles of managerial financial policies, leading to maximizing the value of a firm. Major emphasis on financial decisions facing a firm, management of current assets, capital budgeting, cash flow management, optimal capital structure, time value of money and financial/ratio analysis.

Prereq: 4 credits from BUS-222 or BUS-222(A-E); ECN 201 or 202; and 4 credits from MTH 113, 116, 121, 341, PSY 220, or Permission

BUS 315 Personal Finance4 cr **UL**

This course is designed to provide the skills and knowledge in all areas of financial planning including investment management, income taxation, insurance/risk management, employee benefits, housing costs, retirement and estate planning.

Prereq: BUS-121; BUS-309; and 4 credits from BUS-222, BUS-222A, BUS-222B, BUS-222C, BUS-222D or BUS-222E

BUS 319 Health Care Finance4 cr **UL**

Implements financial management, managerial management, and economic principles to analyze real-world health care issues. Emphasizes and encourages problem-solving and creative thinking through the use of texts, cases, and models of health care industry. Provides a comprehensive overview of financial structure, market forces, controls and techniques used in health care financial management and the perspectives of the various interest groups involved (providers, insurers, policy makers, patients, and the general public). Provides students with an overview of the principal financial mechanisms in place across the U.S. health care industry and specific insights into critical issues the industry currently faces.

Prereq: BUS-121 or 131; BUS-221; 4 credits from BUS-222 or BUS-222 (A-E), and Junior Standing

BUS 321 Intermediate Accounting I4 cr **UL**

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.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E)

BUS 322 Intermediate Accounting II4 cr **UL**

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.

Prereq: BUS-321

BUS 323 Contemporary Management4 cr **UL**

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.

Prereq: 4 credits from BUS-222 or BUS-222(A-E); ECN 201 or 202; and 4 credits from MTH 113, 116, 121, 341, PSY 220 or Permission

BUS 324 Human Resource Management4 cr **UL**

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.

Prereq: BUS-323 or Permission

BUS 325 Business Law I4 cr **UL**

Explores legal topics such as courts, litigation, and alternative dispute resolution, contract formation, defenses to contract enforceability, third party rights and discharge, breach and remedies, sales and commercial transactions, negotiable instruments, personal property, bailments, and liability of accountants and other professionals. This class is designed to prepare future accountants, attorneys, finance, health care and other professionals for navigating legal issues in their field.

Prereq: Junior Standing

BUS 326 Business Law II4 cr **UL**

Explores the legal environment in which business actually operates. Topics include the law of agency, partnerships, corporations, bankruptcy, and estates and trusts.

Prereq: Junior Standing

BUS 327 Law for Educators4 cr **UL**

Designed for educators to explore the legal environment in which business operates. Topics include an introduction to the court system, employment law, environmental law, contracts, remedies, ethics, sales, commercial instruments, bailments, and real and personal property.

Prereq: Junior Standing

BUS 328 Health Law4 cr **UL**

This course provides a legal framework for students interested in health care administration and managing the legal issues they will face in a health care organization. Students will learn the basic

legal principles including: contract law, tort liability and malpractice, employment law, fraud and abuse, health planning & advocacy, HIPAA/Privacy, public health laws, and other related topics.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E); ECN-201 and 202; MTH-116; or Permission

BUS 329 Health Administration

4 cr **UL**

Explore relevant findings from the behavioral sciences and other disciplines to help students apply appropriate management skills in their organization. Study the basics of leadership, communication, motivation, change theories, organizational culture, problem solving, conflict and negotiations, decision-making, productivity measurement, the TQM process, resources allocation, and mission and values development.

Prereq: BUS-121 or 131; BUS-221; 4 credits from BUS-222 or BUS-222 (A-E); Junior Standing

BUS 331 Cost Accounting

4 cr **UL**

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.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E)

BUS 333 Marketing and Society

4 cr **UL**

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.

Prereq: 4 credits from BUS-222 or BUS-222(A-E); ECN-201 or 202; and 4 credits from MTH-113, 116, 121, 341, PSY-220, or Permission

BUS 334 Health Care Marketing

4 cr **UL**

This general survey class will acquaint students to the marketing discipline from the perspective of Health Care Administration. Topics include target markets, marketing segmentation, marketing research and the marketing mix. NOTE: Students cannot earn credit for both BUS-333 and 334.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E); ECN-201 and 202; MTH-116; or Permission

BUS 336 Direct Response Marketing

2 cr **UL**

Investigate the role that direct response marketing plays in the overall marketing plan for an organization. Topics covered include: customer relationship marketing, data base marketing, user characteristics, lead generation and ethical considerations.

Prereq: BUS-333 or Permission

BUS 337 E-Commerce

2 cr **UL**

Investigate the importance of the rapidly growing field of e-commerce within a firm's overall strategic marketing plan. Topics covered include: user characteristics, privacy and security issues, and ethical and legal considerations. This course will NOT be a course in Web site development.

Prereq: BUS-333 or Permission

BUS 338 Entrepreneurial Marketing

2 cr **UL**

Examines the marketing discipline from the perspective of the entrepreneur. Topics covered include: marketing research, selection of target markets and marketing mix (product, price, place, promotion).

Prereq: BUS-333 or Permission

BUS 339 Logistics/Supply Chain Management

4 cr **UL**

Supply Chain Management encompasses all areas of business that deal with the movement of product. This includes the inbound movement of raw materials and component parts, the transfer of inventory from one location to another and the outbound movement of products to the customer. Areas covered include customer service, facility location, inventory management, order processing, purchasing/procurement, transportation and warehousing.

Prereq: BUS-333

BUS 340 Applications and Cases in Finance

4 cr **UL**

A study of finance principles and theories as applied to complex corporate problems through the use of company analysis and other hands-on applications.

Prereq: BUS-121, 221, 309, 323, 333, and 4 credits from BUS-222 or BUS-222 (A-E)

BUS 341 Applications & Cases in Management

4 cr **UL**

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.

Prereq: BUS-121, 221, 225, 309, 323, 333 and 4 credits from BUS-222 or BUS-222 (A-E)

BUS 342 Applications and Cases in Marketing

4 cr **UL**

A study of marketing principles and theories as applied to complex corporate problems through the use of company analysis and other hands-on applications.

Prereq: BUS-121, 221, 309, 323, 333 and 4 credits from BUS-222 or BUS-222 (A-E)

BUS 344 Health Care Human Resource Management

4 cr **UL**

Explore human resources management in healthcare organizations including: recruitment and selection of employees, benefits and compensation management, privileging and credentialing of health professions, performance evaluation, staffing plans, labor relations and labor laws relevant to healthcare organizations. Discussion of other topics such as appraisal, discipline, safety, benefits and collective bargaining as related to healthcare human resources.

Prereq: BUS-329 or Permission

BUS 350 Entrepreneurs in Action III

2 cr **UL**

Preparation to present strategic business cases and planning initiatives at regional and national competitions focused on entrepreneurship and the free enterprise system. Only four credits in total of BUS-150, 151 and BUS-350 count toward the Business Administration major.

Prereq: Permission

BUS 385 Business Administration Practicum

4 cr **UL**

Only four credits will count in the major. Requires permission. Student must also successfully complete the appropriate internship workshops that are sponsored by the Center for Student Opportunity (CSO).

Prereq: Complete the following courses with a minimum grade of C: BUS-121, 221, 225, 309, 323, 333 and 4 credits from BUS-222 or 222 (A-E)

BUS 401 Advertising

4 cr **UL**

Study of advertising and its use in marketing programs. Emphasis on the role of advertising in the world of business, developing advertising strategies, selecting media, managing advertising activities and budgeting for profitability. Special emphasis on the social and ethical aspects of the advertising program.

Prereq: BUS-333 or Permission

BUS 405 Health Informatics4 cr **UL**

The course will give students a broad exposure to the field of Health Informatics. Topics include, but are not limited to, networking, information systems, information technology, coding, data bases, HL7, security and HIPAA.

Prereq: BUS-329 or Permission

BUS 410 Investments4 cr **UL**

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.

Prereq: BUS-309 or Permission

BUS 415 Advanced Finance4 cr **UL**

Application of principles of finance to solving selected business case problems and analyzing current financial topics. Coverage includes capital structure decisions, working capital policy, current liability management, optimal capital budgets, dividend policy, and lease financing aimed at maximizing the value of a firm.

Prereq: BUS-221, BUS-309, and 4 credits from BUS-222 or BUS-222 (A-E)

BUS 422 Advanced Accounting4 cr **UL**

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

Prereq: BUS-322 and Senior Standing

BUS 423 Small Business Management4 cr **UL**

Examines the principles and practices pertaining to the operation of small business enterprises. Students are required to apply skills learned in the core business courses, with a special emphasis on management. Opportunities and risks inherent in starting small businesses are analyzed and the skills needed to successfully run a small business are discussed.

Prereq: BUS-221, 309, 323, 333, and 4 credits from BUS-222 or BUS-222 (A-E)

BUS 425 Federal Individual Income Tax4 cr **UL**

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.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E)

BUS 426 Federal Business Taxation4 cr **UL**

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.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E)

BUS 427 Transnational Management4 cr **UL**

Study of labor forces, competitive practices, decision making, planning and control, and human resource management in international business. Exploration of other topics influencing global managers and corporations.

Prereq: BUS-323

BUS 428 Global Marketing Management4 cr **UL**

Exploration of the environment of international markets and institutions. Analysis of the impact of cultural, social, financial, legal, political and technical problems in the marketing plan with particular emphasis on current international developments.

Prereq: BUS-333 or Permission

BUS 429 Multinational Finance4 cr **UL**

Analysis of foreign exchange issues and risk management, international investment and capital budgeting, global securities and capital markets.

Prereq: BUS-309

BUS 433 Exploring Health Disparities4 cr **UL**

Introduction to global health care systems and models and their influences on health disparities and delivery of healthcare. Students will think critically about and discuss health and healthcare within a global environment. Examine vulnerable populations and how social determinants influence the health outcomes of various nations.

Prereq: BUS-121 or 131 or Permission

BUS 435 Marketing Research4 cr **UL**

Study of the formal research techniques applicable to marketing. Methodical considerations include sample selection, questionnaire design, data collection, processing and analysis of data, and the preparation of managerial reports.

Prereq: 4 credits from BUS-222 or BUS-222 (A-E); ECN-201 or 202; 4 credits from MTH-113, 116, 121, 341 or PSY-220; or Permission

BUS 436 Personal/Sales Management4 cr **UL**

Designed to introduce students, through hands-on role playing and practice, to the profession of Personal Selling. Steps in the selling process will be analyzed. Students will be required to prepare a sales presentation. The latter half of the class will focus on Sales Management. Supervisory techniques, measurement tools, and use of training material will be analyzed. Upon successful completion of the course, students will be prepared for an entry-level personal selling position.

Prereq: BUS-333

BUS 440 Global Strategic Management4 cr **UL**

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.

Prereq: BUS-121, 221, 309, 323, 333 and 4 credits from BUS-222 or BUS-222 (A-E)

BUS 441 Strategic Planning in Health Care4 cr **UL**

Introduces students to strategic planning as it applies to health care organizations. Students will develop practical skills in strategic management, such as internal and external environmental assessment, competitor analysis, and methods for evaluating strategic alternatives that can be used in different types of health care settings. Explores the leadership roles of governing boards, health care managers, and clinicians.

Prereq: BUS-319, 329 and Senior Standing

BUS 442 Accounting Information Systems4 cr **UL**

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.

Prereq: BUS-322 and Senior Standing

BUS 446 Cross-Cultural Studies4 cr **UL**

Study of selected aspects of world business and economics, politics, religion, communication and the exploration of cultural relations across national boundaries. Special focus on the importance of effective cross-cultural relations for global managers

and corporations. Locations vary.

BUS 449 Auditing

4 cr **UL**

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.

Prereq: BUS-322 and Senior Standing

BUS 450 Long-Term Care Management

4 cr **UL**

Basic overview of long-term care management in the United States. Covers the state of the field, those it serves, and the various organizations who serve them. Examines issues affecting all long-term care providers, individually or collectively (e.g., financing, regulations, integration, ethical issues). Discusses how various segments of long-term care fit together to form an overall system while looking at trends that are likely to shape the long-term care field in the future.

Prereq: BUS-329 or Permission

BUS 480 Topics in Business Administration

2-4 cr **UL**

Current topics in Business Administration including: Business Leadership and Society, Commercial Banking, Government and Not for Profit Accounting, Personal Finances, Physical Distribution Management, Real Estate Management, Sales Management and other topics as the need arises.

BUS 499 Business Admin. Independent Study

1-4 cr **UL**

Requires instructor permission.

BUS 500 Senior Thesis

4 cr **UL**

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

Prereq: Senior Standing and Permission

Chemistry (CHM)

Major Requirements

1. Core: 28 credits consisting of CHM-115, 223, 224, 230, 320, 331, and 332.
2. Areas of Concentration:
 - a. Chemistry: 8 credits from CHM-251, 300 or 400 level courses, BCM-321 or 422. At least 4 credits must be at or above the 300 level.
 - b. American Chemical Society Certified Degree: CHM-313 and 314; BCM-321; and 4 credits chosen from CHM-399, 411, 499, or BCM-422.
 - c. Pre-Medicine: BCM-321 and 4 credits from 300 or 400 level courses in Chemistry; The American Chemical Society Certified Degree is also available with the pre-medicine concentration.
3. Successful completion of CHM-450.

Program Considerations

Potential majors are advised to schedule MTH-121 and 122 and PHY-121 and 122 (or PHY-112 and 113) in the freshman and sophomore 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 particular 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.

Students bound for medical school should elect CHM-115 in the fall of the freshman year so that BCM 321 can be completed in advance of taking the MCAT at the end of the Junior year

(CHM-115, 223, 224, 230 and BIO-121 are prerequisites to BCM-321). To be a competitive medical school applicant, the Chemistry Department strongly recommends 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.

Departmental Honors

Students may achieve honors in the Chemistry Department by:

1. Having 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 the Department chair for details on how to fulfill the thesis requirements.

Minor requirements

Twenty-four credits with eight credits numbered 300 or above and which may include BCM-321 and 422.

Teaching Major Requirements

Completion of the requirements for the Chemistry major.

Teaching Minor Requirements

Twenty-four credits that must include CHM-115, 223, 224, 230 and BCM-321; and four credits chosen from CHM-320, 331 or 332.

American Chemical Society Certified Degree

Completion of CHM-15, 223, 224, 230, 313, 314, 320, 331, 332, 450, BCM-321 and four credits chosen from CHM-399, 411, 499, or BCM-422. Completion of a minimum of 400 hours of laboratory work must be included. Students must consult with the Chemistry chair in their junior year for approval of their program.

Four credits from CHM, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Physical Sciences.

CHM 103 Basic Chemical Investigations

NS2 4 cr

Basic chemical phenomena and methodology for non-science majors. Topics center on real-world problems and societal issues with significant chemical content. Laboratory uses modern chemical instrumentation including spectrophotometers. Does not count toward the Chemistry major or minor. DR and academic credit will only be awarded to one of CHM-103 or CHM-115. Laboratory. Course fee.

Prereq: MTH-101

CHM 115 Chemical Analysis

NS2 4 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. Laboratory. Course fee.

Prereq: Placement in MTH 110 or higher

CHM 199 Chemistry Independent Study

1-4 cr

Planned program of reading or laboratory experimentation. Course fee. Requires instructor permission.

CHM 223 Organic Chemistry I

NS2 4 cr **UL**

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.

Prereq: CHM-115

CHM 224 Organic Chemistry II

NS2 4 cr **UL**

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.

Prereq: CHM-115, 223

CHM 230 Inorganic Chemistry
NS2 4 cr **UL**
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.
Prereq: CHM-224 or Permission

CHM 251 Chemistry of Ordinary Things
NS2 4 cr **UL**
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.
Prereq: CHM-223

CHM 280 Topics in Chemistry
4 cr **UL**
Chemical topics chosen by the instructor. May be taken more than once for credit. Course fee may apply.
Prereq: CHM-230

CHM 310 Medicinal Chemistry
NS2 2 cr **UL**
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.
Prereq: CHM-230

CHM 311 Environmental Chemistry
NS2 2 cr **UL**
Introduction to environmental chemistry, emphasizing the origins, transport, reactions, effects and fates of chemical species in the water, air, soil and living environments.
Prereq: CHM-230

CHM 312 Fragrance and Flavor Chemistry
NS2 2 cr **UL**
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.
Prereq: CHM-230

CHM 313 Inorganic Structures
NS2 2 cr **UL**
A survey of inorganic species including symmetry, bonding models and spectroscopy. An overview of the reactions of organometallic compounds will be included.
Prereq: CHM-230

CHM 314 Bioinorganic Chemistry
NS2 2 cr **UL**
The study of the use of metals by biological species emphasizing inorganic models, reaction types and reaction mechanisms.
Prereq: CHM-230

CHM 320 Instrumental Analysis
NS2 4 cr **UL**
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.
Prereq: CHM-230

CHM 331 Physical Chemistry I
NS2 4 cr **UL**
Study of the physical principles of chemistry with emphasis on thermodynamics, quantum mechanics, statistical mechanics and kinetics. Laboratory. Course fee.
Prereq: CHM-230, MTH-122 and PHY-113 or 122

CHM 332 Physical Chemistry II
NS2 4 cr **UL**
Study of the physical principles of chemistry with emphasis on thermodynamics, quantum mechanics, statistical mechanics and kinetics. Laboratory. Course fee.
Prereq: CHM-230, MTH-122 and PHY-113 or 122

CHM 380 Topics in Chemistry
NS2 1-4 cr **UL**
Chemical topics chosen by the instructor. May be taken more than once for credit.
Prereq: CHM-230

CHM 399 Chemistry Independent Study
SL 1-4 cr **UL**
Laboratory investigation of an original problem. Course fee. Requires instructor permission.

CHM 411 Advanced Organic Chemistry
NS2 4 cr **UL**
Advanced study of modern synthetic reactions, mechanisms and theoretical perspectives. Laboratory. Course fee.
Prereq: CHM-230 or Permission

CHM 450 Senior Seminar
NS2 1 cr **UL**
Analysis of the literature in a variety of chemical subfields. Culminates in an oral exam evaluating the ability to read and interpret the literature.
Prereq: Senior Standing; BCM or CHM Major

CHM 480 Topics in Chemistry
1-4 cr **UL**
Chemical topics chosen by the instructor. May be taken more than once for credit.
Prereq: CHM-230

CHM 499 Chemistry Independent Study
SL 1-4 cr **UL**
Laboratory investigation of an original problem. Course fee.
Prereq: Permission

CHM 500 Senior Thesis
4 cr **UL**
Preparation of a comprehensive thesis and a public presentation on an investigation of an original problem. Required for departmental honors.
Prereq: Six credits in CHM-399 or 499 or taken concurrently

Chinese (CHN)

Chinese courses, as designated by the three-letter prefix CHN, are offered through the Modern Languages Department. The courses listed are offered periodically upon sufficient demand.

Four credits from CHN 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

CHN 111 Beginning Chinese I
LA 4 cr
This introduction to Chinese places emphasis on all four basic skills: speaking, listening, reading and writing. Secondary objective provides insight through participation in Chinese culture and society.

CHN 112 Beginning Chinese II
AH LA 4 cr
This introduction to Chinese places emphasis on all four basic skills: speaking, listening, reading and writing. Secondary objective provides insight through participation in Chinese culture and society.
Prereq: CHN-111 or Permission

CHN 221 Intermediate Chinese I
 AH LA 4 cr
 Second year Chinese; continuing study of the Chinese language; training of listening and speaking skills with additional emphasis on reading and writing within a cultural context.
Prereq: CHN-112 or Permission

CHN 222 Intermediate Chinese II
 AH LA 4 cr
 Second year Chinese; continuing study of the Chinese language; training of listening and speaking skills with additional emphasis on reading and writing within a cultural context.
Prereq: CHN-112 or Permission

Cognitive Science (COG)

Minor Requirements

- Complete a major in one of the member disciplines (Computer Science, Psychology or Philosophy) or other approved program.
- Twenty-four credits beyond the major, including
 - COG 120 and 180.
 - Six-10 additional credits chosen from COG 180, 280, 399, 480 or 499.
 - Remaining credits chosen from PSY 121, 201, 204, 231, 310; ENG 220; CSC 117, 120, 220; or PHL 303, 305, 347. Other courses in the constituent disciplines may be included with approval.
- No more than eight credits that have been applied to another minor may be applied to the Cognitive Science minor.

COG 120 Introduction to Cognitive Science 2 cr
 Introduces the constituent disciplines of Cognitive Science and explores relationships among these disciplines in the study of the mind. Conducted in classroom and laboratory. Team taught by faculty from at least two of the member disciplines.

COG 180 Topics in Cognitive Science 2-4 cr
 Exploration of an area introduced in COG-120. Possible topics: mental images, language of thought, child's theory of mind, scripts, prototypes and schemas, consciousness. Orientation to the relevant literature. May be repeated for credit for distinct topics.
Prereq: COG-120

COG 280 Advanced Topics in Cognitive Science 2-4 cr **UL**
 In-depth study of a selected topic in Cognitive Science or a constituent discipline. Possible topics: neural networks, natural language processing, neuroscientific approaches, discourse analysis, philosophy of the mind. May be repeated for credit for distinct topics.
Prereq: COG-120 or 180

COG 399 Cognitive Science Independent Study 1-4 cr **UL**
 Requires instructor permission.

COG 480 Topics in Cognitive Science 2-4 cr **UL**
 Critical consideration of current research in Cognitive Science or across constituent disciplines. Student papers and projects reflect emphasis on skills in the evaluation, integration and formulation of inquiry within and across disciplines. Team taught by faculty from at least two of the member disciplines. May be repeated for credit for distinct topics.
Prereq: COG-120, 180 and Permission

COG 499 Cognitive Science Independent Study 1-4 cr **UL**
 Requires instructor permission.

Communication (COM)

Major Requirements

- Fifty-two credits which must include the following:
- Core: COM-101, 111, and 4 credits from PHL-126, 225, 227, 228, or 229.
 - Context: Twenty credits (16 of which must be upper-level) that include;
 - 4 credits from COM-201, 220, or 227
 - 4 credits from COM-302, 320, or 327
 - Capstone: COM-350, 385 (pass/fail only), and 450.

Note: No more than 4 credits of COM-385 may be counted toward the COM major, and no more than 8 credits of COM coursework may be counted toward another major or interdisciplinary minor.

Departmental Honors

Completion of all COM major requirements, 3.5 GPA in the major, and completion of a senior thesis of honors caliber (COM-500).

Minor Requirements

Twenty-four credits, 12 of which must be upper level. Must include COM-101, 111, 450; and 4 credits from COM-201, 220, 227, 302, 320, 327.

Four credits from COM, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

COM 101 Human Communication 4 cr
 AH
 Beginning study of the nature, problems and theories of human communication. Examines issues of meaning, relationship and community within interpersonal, group and media contexts. Surveys rhetorical, pragmatic and interpretive perspectives on the communication process.

COM 111 Fundamentals of Speech Communication 4 cr
 AH
 Elements of oral communication in public contexts. Emphasis on diagnosing rhetorical situations, inventing and delivering informative and persuasive presentations, and facilitating public discussion.

COM 123 Performing Advocacy 4 cr
 AH SL
 Explores the relationships among identity, power and culture. Students learn how to become advocates through the use of Everyday Life Performance and other performance techniques, engaging in perspective taking and service learning with marginalized groups.

COM 192 Introduction to Public Relations 2 cr
 AH
 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.

COM 201 Relational Communication 4 cr
 AH
 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.

COM 202 Group Communication and Teamwork 2 cr
 AH
 Uses academic literature, case discussions, illustrative exercises, and group projects to foster the development of skills needed to participate in and lead groups and teams. The course focuses on how to recognize and diagnose group communication difficulties, and to develop strategies for improving teamwork and group performance.

COM 211 Political Communication
 AH 4 cr
 Explores the influence of political messages and discourse in civic life. Topics include the relationship of free speech and a free press to democracy, historical and contemporary foundations for understanding the social influence of political messages the political uses and effects of traditional and new media, and contemporary challenges to free speech, deliberative public discourse, and participatory democracy.

COM 212 Sports Communication
 AH 4 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.

COM 220 Intercultural Communication
 🌐 AH 4 cr UL
 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.

COM 223 Humor, Culture and Communication
 AH 4 cr UL
 Explores humor as an important means of communicating cultural messages by considering issues such as power, identity and marginality. Focusing on a variety of media - from stand-up comedy performance to literary parody, this course examines humor as social critique and potentially subversive rhetoric. Through analysis and performance of stand-up comedy, students gain an understanding of the relationship between humor and power, and the importance of this relationship in rhetorical and cultural contexts. Course fee.

COM 227 Argument & Public Advocacy
 AH 4 cr UL
 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.

COM 243 Health Communication
 AH 4 cr UL
 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.

COM 253 Environmental Communication
 🌿 AH 4 cr UL
 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.

COM 281 Topics in Relational Communication
 AH 4 cr UL
 Exploration of specific topics in relational communication, which may include nonverbal communication, conflict communication, intimacy and technology, family communication, communicating loss and other areas.

COM 282 Topics in Strategic Communication
 AH 4 cr UL
 In-depth exploration of specific topics in strategic communication, which may include political campaign communication, corporate image management, public policy and advocacy, presidential rhetoric, the rhetoric of social movements, organizational change, non-profit leadership, strategic health campaigns, environmental advocacy, and other areas. May be taken more than once for credit as topics vary.

COM 302 Strategic Organizational Communication
 AH 4 cr UL
 Study of strategic communication goals, messages, networks, and systems in organizations. Examines internal organizational processes of socialization, coordination, leadership, and change as well as external communication processes of issue management, corporate citizenship, and public relations.
Prereq: COM-202 or 4 credits in COM or Permission

COM 320 Gender and Communication
 AH 4 cr UL
 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.
Prereq: Four credits in COM or Permission; Sophomore Standing

COM 327 Propaganda & Persuasion
 AH 4 cr UL
 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.
Prereq: COM-227 or Permission

COM 350 Seminar in Communication Inquiry
 🖋️ AH 4 cr UL
 Examination of systematic methodological approaches to the formal analysis of communication processes, messages and problems. Focus on evaluation of research literature and creation of a research proposal. Requires Junior standing.
Prereq: Twelve credits in COM, including COM-101 or Permission; Junior Standing

COM 353 Risk and Crisis Communication
 AH 4 cr UL
 This course examines the communication practices and resources through which individuals, groups, agencies, media organizations, and communities recognize and respond to natural and socially created risks and crises. Topics include the nature and types of risks and crises, the functional requirements for effective risk and crisis communication, the organizational and procedural elements of risk and crisis communication systems, and the communication skills needed to design and disseminate the verbal, visual, and multi-media messages to reduce risks and manage crises.
Prereq: COM-243 or 253 or Permission

COM 381 Sem in Relational Com Rsrch & Practice
 AH 4 cr UL
 Through substantive reading, discussion and presentation, students focus on a particular area of relational communication (topics vary) in order to gain in-depth understanding and become familiar with recent scholarship in that area. Using a seminar format, each student plays a significant role in sharing scholarly findings.

COM 382 Seminar: Strat. Com Research & Practice
 AH 4 cr UL
 Topics vary. Students engage in advanced reading, lead substantive discussions, and develop research-based presentations to demonstrate in-depth understanding of specific and timely topics and issues in strategic public discourse and advocacy.
Prereq: Junior Standing and 4 upper level credits in COM or Permission

COM 385 Communication Internship
 2-4 cr UL
 Application of communication concepts and skills through participation in communities, institutions, agencies, schools and businesses. Supervision by faculty and sponsoring organizations. Includes interpretive journal and substantive analytic paper.
Prereq: Twelve credits in COM and Junior Standing or Permission

COM 450 Communication Theory

AH

4 cr UL

Synthesis, integration and elaboration of theoretical perspectives on communication issues, problems and practices developed through previous coursework, projects and internships.

Coursework includes completion of individual senior project and compilation of portfolio.

Prereq: COM Major or Minor; Senior Standing and COM-385 or Permission

COM 500 Senior Thesis

2-4 cr UL

Development and completion of original research. May be interpretive, critical, empirical, or theoretical. Required for departmental honors. Requires senior standing and permission.

Computer Science (CSC)

Major Requirements

Thirty-six credits which must include:

1. CSC-120, 204, 220, 230, 240 and 310 .
2. Fourteen additional credits as follows:
 - a. Eight credits from CSC-410, 420, 430 or 440.
 - b. Electives may be chosen from any CSC course numbered 114 or above; MTH-336; and COG-120.
 - c. No more than six credits from CSC-114, 117, and COG-120 may be applied to satisfy major requirements.
3. Three required cognate courses: MTH-120, 220 and any additional MTH course numbered 113 or higher (MTH-336 cannot be counted for this requirement and as a CSC elective).
4. The senior comprehensive examination includes three parts: successful completion of the Major Field Test in Computer Science, submission of an approved writing sample and an approved oral presentation.

Program Considerations

Graduate school bound students are strongly encouraged to take CSC-420, 430, 440, and to minor in mathematics. Many graduate schools expect undergraduate research as part of entering students' background; thus, a senior thesis is also encouraged. 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.

Secondary Teaching Major Requirements

Thirty-six credits which must include:

1. CSC-120, 204, 220, 230, 240, 280A, 310 and 410.
2. Eight additional credits from the following:
 - a. Four credits from CSC-420, 430 and 440.
 - b. Elective(s) may be chosen from any CSC course numbered 114 or above; COG-120; and MTH 336.
 - c. No more than four credits from CSC-114, 117 and COG-120 may be applied to satisfy the major requirement.
3. Three required cognate courses: MTH-120, 220 and any additional MTH course numbered 113 or higher. MTH-336 cannot be counted for this requirement and as a CSC elective.
4. The senior comprehensive examination includes three parts: successful completion of the Major Field Test in Computer Science, submission of an approved writing sample and an approved oral presentation.
5. Each candidate for a teaching certificate in CSC will participate in at least two terms of internship/practica, which entails maintaining and operating computer and network systems in the CSC laboratories and tutoring students taking lower-level CSC courses. No credit is given for internships, but students are paid the same as those doing paid jobs.

Minor Requirements

Twenty-four CSC credits which must include CSC-120, 220 and at least eight upper level credits. The cognate course, MTH-120, is required.

Four credits from CSC 120 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Mathematics/Computation.

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.

Prereq: MTH-101 or equivalent

CSC 114 Introduction to Web Development

AH

4 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. Laboratory.

CSC 117 Image & Reality

4 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.

Prereq: MTH-110 or above or Placement at 112 level

CSC 118 Media Computation

4 cr

Introduction to media programming and computation. Exploring computer programming for manipulating images, sounds, movies, e-text, and other digital media. Skills and knowledge will involve problem-solving, data representation, and programming principles including recursion, user-interaction, and object-oriented design. Introduction to computer science hardware and software fundamentals. CSC-118 and 120 may not both be taken for credit in the major. Laboratory.

Prereq: MTH-110 or above or Placement at 112 level

CSC 120 Object-Oriented Programming & Design

NS3

4 cr

Fundamentals of object-oriented programming in the language of instruction (e.g., Java). Topics include: basic computation, input and output, control structures, classes and object instantiation, methods and parameter passing, arrays and strings, sorting and searching. Laboratory.

Prereq: MTH-110 or above or Placement at 112 level

CSC 204 Social and Ethical Issues

2 cr

Studies social and moral problems arising from the use of computing technologies, with a particular focus on the Internet. Topics such as free speech, privacy, communications interception, encryption, intellectual property, liability for software and hardware malfunction, and for information content.

Prereq: Any CSC course or Permission

CSC 220 Data Structures and Advanced Programming Techniques

NS3

4 cr

Focuses on object-oriented design, encapsulation and inheritance. Programming topics such as recursion and event-driven programming. Basic data structures such as a stacks, queues and linked lists.

CSC 230 Software Engineering

NS3

4 cr UL

Software development: requirements, specification, modern design techniques, program testing methods, software metrics as used in quality evaluation, and project management.

Prereq: CSC-220

CSC 240 Algorithms & Complexity
NS3 4 cr UL
Advanced data structures and algorithms, algorithmic analysis, and an introduction to distributed and parallel algorithms.
Prereq: CSC-220 and MTH-220

CSC 280 Topics in Computer Science
NS3 2-4 cr UL
Topical study in computer science. While topics vary, the course usually introduces a particular computer programming language (e.g., C, C++, Prolog, etc.).
Prereq: CSC-220; Permission

CSC 310 Computer Organization
NS3 4 cr UL
Advanced introduction to assembly languages and structure and organization of digital computers, including addressing schemes, digital representation of data and computer arithmetic.
Prereq: CSC-220

CSC 335 Computer Graphics
NS3 4 cr UL
Introduction to techniques of computer graphics including three-dimensional representations, perspective, computer animation, computer art and applications of computer graphics to various other disciplines.
Prereq: CSC-220 and MTH-220

CSC 345 Artificial Intelligence
NS3 4 cr UL
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.
Prereq: CSC-220

CSC 380 Topics in Computer Science
NS3 2-4 cr UL
Topics of current interest and importance.
Prereq: CSC-220; Permission

CSC 399 Computer Science Independent Study
1-4 cr UL
Requires instructor permission.

CSC 410 Database Management
NS3 4 cr UL
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.
Prereq: CSC-230

CSC 420 Operating Systems
NS3 4 cr UL
Survey of major concepts of operating systems. Investigation of relationships among the operating system, the architecture and the systems programs of a computer system.
Prereq: CSC-310

CSC 430 Theory of Computing
NS3 4 cr UL
In-depth study of the main components of the theory of computation: finite automata and computability.
Prereq: CSC-240

CSC 440 Compiler Design
NS3 4 cr UL
In-depth study of the principles of computer language processor design. Includes lexical analysis, syntactic analysis, semantic analysis, object code generation and error detection.
Prereq: CSC-310

CSC 499 Computer Science Independent Study 1-4 cr UL
Requires instructor permission.

CSC 500 Senior Thesis 1-4 cr UL
Requires instructor permission.

Economics (ECN)

Major Requirements

1. Thirty-six credits including ECN-201, 202, 301, 311, and 331; ECN-317 or 318; ECN-345 or 370; and eight additional credits of 300-level or above ECN coursework. (Economics 180 courses do not count toward the major.)
2. All 36 credits that count toward the major must be taken for letter grade. Economics courses may be taken for S/F credit but only above and beyond the 36 credits taken for letter grade for the major.
3. Successful completion of ECN-500 or a minimum score of 150 on the Major Field Achievement Test in Economics is required for the Department's comprehensive evaluation. Students should schedule the MFAT for the Fall Term of their senior year. Students who fail the Fall MFAT will retake it in the Winter Term. Students who fail a second time will be given an oral comprehensive evaluation.
4. Prior approval is required for all transfer credit for any 300-level or above ECN coursework.
5. Honors candidates must have a minimum overall 3.3 GPA and a 3.5 GPA in the Economics Department, complete ECN-500 and present that work in some forum, either internal or external.
6. The Department recommends that students supplement the major with courses from Business Administration, Political Science, Mathematics and Philosophy. Students interested in Economics graduate work are strongly encouraged to take MTH-121 and 122, and/or MTH-116, 117, 192, 310, and 341-342. Students interested in law school are strongly encouraged to take BUS-325 and 326, HST-121 and 122, PHL 103, and/or POL-131, 225, 335 and 336. Students interested in an MBA or a career in business are strongly encouraged to take BUS- 221 and 222, 309, 323, 333, 440, MTH-113, 116, 192, and/or PHL-227.

Minor Requirements

Twenty-four credits which must include ECN-201 and 202, plus 16 additional credits of 300-level or above ECN coursework. The 16 additional credits may not be taken for S/F credit. (ECN-180 courses do not count toward the minor.)

Four credits from ECN, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Social Sciences.

ECN 180 Readings in Economics 1-4 cr
SO
Selected readings of classic economic works in student interest area. Not counted toward Economics Major or Minor. Instructor permission required.

ECN 201 Principles of Macroeconomics 4 cr
SO
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 202 Principles of Microeconomics 4 cr
SO
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.

<p>ECN 301 Intermediate Microeconomics SO 4 cr UL Price mechanism and elasticity concepts. Theories of consumer behavior and producer behavior. Pricing in product and resource markets. General equilibrium theory. <i>Prereq: ECN-201 and 202</i></p>	<p>ECN 339 History of Economic Thought SO 4 cr UL Historical development of economic ideas, paradigms and ideologies: Mercantilist, Physiocrat, Classical, Marxian, Neo-Classical, Institutional and Keynesian. <i>Prereq: ECN-201 and 202</i></p>
<p>ECN 311 Intermediate Macroeconomics I SO 4 cr UL Models of national income determination. The monetary system and the relationship between money and financial markets. Monetary theory and policy. Explanations of inflation and unemployment. Business cycles and economic growth theory. <i>Prereq: ECN-201 and 202</i></p>	<p>ECN 340 Environmental Economics SO 4 cr UL 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. <i>Prereq: ECN-202</i></p>
<p>ECN 317 Econometrics SO 4 cr UL 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. <i>Prereq: MTH-116</i></p>	<p>ECN 345 Labor Economics SO 4 cr UL 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. <i>Prereq: ECN-202</i></p>
<p>ECN 318 Mathematical Economics SO 4 cr UL Formal application of mathematical tools to micro- and macroeconomic analysis; algebra, sets, matrix algebra, differential and integral calculus, ordinary and partial differential equations, and finite difference equations. <i>Prereq: ECN-201 and 202; MTH-113 or 121</i></p>	<p>ECN 355 Globalization in Latin America SO 4 cr UL Students spend the Spring Term in a Latin American nation living with a local family, improving their Spanish skills, participating in a two week service-learning project, attending seminar presentations by resident scholars, and studying the socioeconomic impacts of trade and globalization in the country being visited. <i>Prereq: ECN-201 and Permission</i></p>
<p>ECN 320 Money & Capital Markets SO 4 cr UL 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. <i>Prereq: ECN-201 and 202</i></p>	<p>ECN 360 General Economic History SO 4 cr UL Survey of major forms of economic systems from paleolithic times to present: Stone Age economy, Ancient Egypt, Mesopotamia and Mesoamerica, Classical Greece and Rome, feudal and manorial Europe, mercantile and industrial Europe and America. Economic institutions of reciprocity, redistribution and market. <i>Prereq: ECN-201 and 202 or Permission</i></p>
<p>ECN 321 Public Finance SO 4 cr UL The economics of government. Revenue and expenditure policies of federal, state and local governments in theory and practice; tax shifting and incidence. Study of current fiscal and related public policy issues. <i>Prereq: ECN-201 and 202</i></p>	<p>ECN 370 Regional Economics SO 4 cr UL Industrial/agricultural location and human migration theories and cases. Economic bases for land-use patterns, central places, regional/urban structure. Examination of urban problems. Regional and urban growth models. Business feasibility studies and public cost-benefit analysis. <i>Prereq: ECN-201 and 202</i></p>
<p>ECN 326 Economic Development SO 4 cr UL Seeks to answer the question why some countries are rich and other countries poor. The role of the economist in development will be examined. <i>Prereq: ECN-201 and 202</i></p>	<p>ECN 380 Topics in Economics SO 4 cr UL Selected topics in economics announced in advance. May be taken more than once for credit if topics are different. <i>Prereq: ECN-201 and 202</i></p>
<p>ECN 331 International Trade SO 4 cr UL 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. <i>Prereq: ECN-202</i></p>	<p>ECN 385 Economics Practicum 4 cr UL Requires Junior standing or permission.</p>
<p>ECN 332 International Finance SO 4 cr UL 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. <i>Prereq: ECN-201 and 202</i></p>	<p>ECN 499 Economics Independent Study 4 cr UL Under supervision, student formulates project topic, conducts research and prepares a properly documented paper presenting conclusions and support. Requires instructor permission.</p>
	<p>ECN 500 Senior Thesis 4 cr UL Requires instructor permission.</p>

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 Area Tests in teaching majors and minors, and successfully fulfilled all requirements of the Teacher Education Program. The Education Department offers majors leading to elementary or secondary certification. The Department also offers a *non-certification* Educational Studies Major and 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. Requirements for group majors or minors are listed in the Education Department listing and students should consult with the Education Department Chair about requirements. Majors and minors not listed here are not approved for certification. (*These requirements are subject to change and reflect compliance with the standards and rules established by the Michigan State Board of Education.*)

Graduation Requirements: Students who are in the elementary or secondary Teacher Education Program shall only be deemed as **satisfying graduation requirements when all required education courses for certification are complete.**

Alma students may seek either secondary or elementary certification.

For certification purposes, students are responsible for completing teaching majors and minors, including secondary or elementary majors, as described at the time of declaration of that major/minor.

SECONDARY EDUCATION MAJOR REQUIREMENTS

The Secondary Education Major may only be completed with another valid Alma College teaching major and teaching minor, or two teaching majors, or K-12 comprehensive major in Art, Music, or Special Education.

The Secondary Education Major consists of 36 credits of a required Professional Sequence of Education courses:

1. EDC-130 (2 cr) with 103 (1 cr).
2. EDC-230 (3 cr) with 203 (1 cr); EDC 240 (4 cr).
3. EDC-311 (1 cr); 312 (1 cr); 303 (1 cr) (or EDC-306 (2 cr) Art majors only); EDC-346 (4 cr); 370 (2 cr); 373 (3 cr) (except for Special Education major);
Prerequisites include Admission to the Teacher Education Program.
4. EDC-430S (3 cr) with 490S and 491S (10 cr). *Prerequisites include successful completion of all other courses of Secondary Education Major and Admission to Student Teaching.*

Michigan Secondary Provisional Certification Requirements

This certificate allows teaching in grades 6-12 in subjects in which the candidate has a teaching major or minor. To be recommended for certification, the candidate must complete the following:

1. The Secondary Education Major, *requirements listed above*, with a 2.5 GPA and no Education course may be taken Pass/Fail, except for 1 credits classes, or be graded below a 2.0 (C).
2. A Teaching Major and a Teaching Minor (or two teaching majors, or a K-12 comprehensive major in Art, Music, or Special Education), with a 2.75 GPA in each.
3. An overall GPA of 2.75.
4. Students must also pass the appropriate MTTC subject area test in their subject area major. To be recommended for certification in a minor or second major, candidates must also pass the appropriate MTTC subject area test in that subject. For initial certification, MTTC subject-area passing scores will remain valid for five years.
5. Students must provide proof of valid CPR and First Aid cards as required by the Michigan Department of Education.

Secondary Teaching Majors and Minors

Alma College offers the following teaching majors and/or minors for students seeking secondary certification:

- Art (Visual Arts Education; K-12 comprehensive major only)
- Biology (major or minor)
- Business, Management, Marketing and Technology (major only)
- Chemistry (major or minor)
- Computer Science (major only)
- English (major or minor)
- French (major or minor)
- German (major or minor)
- History (major only)
- Mathematics (major or minor)
- Music (K-12 comprehensive major only)
- Physical Education (major only)
- Physics (major or minor)
- Social Studies (group major only, must also complete History major; must see EDC Department chair for advising)
- Spanish (major or minor)
- Special Education - Learning Disabilities (K-12 major only)

Social Studies Group Major (Secondary)

All Secondary Teaching students who wish to declare a Social Studies Group Major must also complete a major in History. Students MUST see the Education Department chair for advising on this major.

Forty-eight credits which must include:

1. ECN-201 (4 cr) and 202 (4 cr).
2. GGR-101 (2 cr), 102 (2 cr), and 201 (4 cr).
3. POL-101 (4 cr) and 121 (4 cr).
4. HST-100 (4 cr), 101 (4 cr), 104 (4 cr), 105 (4 cr), and 206 (4 cr) (students may double count up to two of the above HST courses for the HST teaching major and the SST group teaching major).
5. EDC-445S (4 cr).
6. For certification, take and pass the MTTC Social Studies test.

No course graded below 2.0 (C) may count toward a Social Studies Group Major; a 2.75 GPA is required.

Special Education - Learning Disabilities (K-12 Major only) (Secondary or Elementary)

Thirty-six credits which must include:

1. EDC-150 (2 cr) with 105 (1 cr).
2. EDC-250 (3 cr) with 205 (1 cr).
3. EDC-255 (4 cr), 350 (4 cr), 355 (4 cr).
4. EDC-450 (3 cr) with 405 (1 cr).
5. EDC-453 (4 cr) and EDC-455 (3 cr) with 495 (6 cr).
6. For certification, take and pass the MTTC Special Education - Learning Disabilities test

No course graded below 2.0 (C) may count toward a Special Education - Learning Disabilities K-12 Major; a 2.75 GPA is required. Special Education majors do not take EDC-373.

Experimental Program: Non-certifiable minor option

Teacher certification candidates may apply for the Education Department's Experimental Program which allows a student to waive the requirement for **one** teaching minor and replace it with a non-teaching Alma College minor. **A candidate who completes a non-teaching minor will not have that subject area listed on the Michigan teaching certificate and will not be certified to teach in that non-teaching minor subject in Michigan.** Interested teaching candidates must meet with an advisor to discuss the implications and options, and fill out an Education Department APPLICATION and PETITION. See the Education Department for more details.

Additional Requirements

In addition to completing appropriate coursework in the Education Department and in the majors and minors, students must meet Alma College graduation requirements and demonstrate personal characteristics suitable for entering the teaching profession.

ELEMENTARY EDUCATION MAJOR REQUIREMENTS

The Michigan Department of Education (MDE) has approved the two program options for elementary education now offered at Alma College. To be recommended, the candidate must complete 60 credits of EDC courses, consisting of 36 credits of professional sequence courses and 24 credits of Elementary

Education Content and Pedagogy courses.

- 36 credits of Professional Sequence in the following required courses:
 - EDC-100 (2 cr), 120 (2 cr).
 - EDC-203 (1 cr) with 230 (3 cr); EDC-240 (4 cr).
 - EDC-301 (1 cr) with 311 (1 cr).
 - EDC-302 (1 cr) with 312 (1 cr).
 - EDC-370 (2 cr), 373 (3 cr), (except for Special Education major), 400 (2 cr).
 - EDC-430E (3 cr) with 490E/491E (10 cr).
- 24 credits of Elementary Education Content and Pedagogy in the following required courses:
 - EDC-160 (4 cr); 262 (4 cr).
 - EDC-360 (3 cr) with 362 (3 cr).
 - EDC-361 (3 cr) with 363 (3 cr).
 - EDC-460 (4 cr).

Michigan Elementary Provisional Certification Requirements

This certificate permits teaching in grades K-5 all subjects and K-8 self-contained classrooms, and, if desired, 6-8 in a content area minor or major.

Elementary Education majors may complete certification requirements for Option 1: Core Subject **OR** Option 2: Comprehensive Major. Students may elect to add an endorsement from either Option in addition to completing Option 1 or Option 2.

OPTION 1: Core Subject must include *all* of the following:

- Elementary Education Major - 60 credits of required EDC courses including 36 credits of Professional Sequence courses and 24 credits of Elementary Education Content and Pedagogy courses (see above). *A 2.5 GPA is required for the Elementary Education certification major and no course for certification may be taken Pass/Fail, except for 1 credit classes, or be graded below a 2.0 (C).*
- Either a Teaching Major or two Teaching Minors selected from the following (as programs are approved by the Michigan Department of Education - check with EDC Department):
 - Social Studies Group Major.
 - Integrated Science Group Major or Group Minor.
 - Language Arts Group Major or Group Minor.
 - Elementary Mathematics Minor (Major pending approval).

A 2.5 GPA is required for each certification major and/or minor and no course required for certification may be taken Pass/Fail or be graded below a 2.0 (C).
- As Cognates, a Planned Program of Elementary Education Content courses which must include the following:
 - MTH-202 (4 cr).
 - HUM-110 (4 cr).
 - HST-104, 121 or 254 (American History, 4 cr).
 - IPH-271A (2 cr).
 - BIO-101 (4 cr).

The Planned program must also include:

- PSC-101 (4 cr) for non-Integrated Science majors/minors.
 - HST-206 (4 cr) for non-Social Studies majors.
 - ENG-225 (4 cr) for non-Language Arts majors/minors.
- No cognate course required for certification may be taken Pass/Fail or be graded below a 2.0 (C).*

- An overall GPA of 2.75 is required for Alma College to recommend a student for certification.
- The MTTC Test in Elementary Education (passing score required for certification). **Note:** Elementary candidates must pass State tests in their Specialty Area Endorsement (major or minor) to be certified in these areas. For initial certification, MTTC subject-area passing scores will remain valid for five years.
- Students must provide proof of valid CPR and First Aid cards as required by the Michigan Department of Education for certification.

Language Arts Major (Elementary only)

Forty credits which must include:

- ENG-120 (4 cr), 190 (4 cr), 225 (4 cr); EDC-160 (4 cr); four credits of any 300-level literature course.

- Four credits from the following Literature courses: ENG-250 (4 cr), 251 (4 cr), 260 (4 cr), 261 (4 cr).
- Eight credits from the following Writing courses: ENG-201 (4 cr), 202 (4 cr), 210 (4 cr), 220 (4 cr), 270 (4 cr), 291 (4 cr), 293 (4 cr).
- Four credits from the following Communication Arts courses: COM-101 (4 cr), 111 (4 cr); NMS-201 (4 cr).
- Four credits from the following Multicultural and Interpersonal perspective courses: COM-123 (4 cr), 220 (4 cr), 201 (4 cr); ENG-240 (4 cr), 241 (4 cr), 367 (4 cr), 368 (4 cr), 381 (4 cr).
- For certification, take and pass the MTTC Language Arts test.

Language Arts Minor (Elementary only)

Twenty-eight credits which must include:

- ENG-120 (4 cr), 225 (4 cr); COM 220 (4 cr).
- ENG-250 (4 cr), 251 (4 cr), 260 (4 cr) or 261 (4 cr).
- ENG-201 (4 cr), 210 (4 cr), or another writing class approved by the English Department.
- COM-101 (4 cr), 111 (4 cr), 123 (4 cr)/THD-123 (4 cr), or 227 (4 cr).
- EDC-160 (4 cr).
- For certification, take and pass the MTTC Language Arts test.

Integrated Science Group Major (Elementary only)

Forty credits which must include:

- BIO-101 (4 cr) and 121 (4 cr); CHM-103 (4 cr); PHY-112 (4 cr); ENV-105 (4 cr) and 110 (4 cr); GEO-113 (4 cr); PSC-380 (4 cr).
- Two elective classes from the following: ENV-380 (4 cr); GEO-101 (4 cr), PHY-101 (4 cr) or 113 (4 cr), BIO-309 (4 cr), only one 399 (4 cr) Independent Study allowed from one of the following departments: ENV, GEO, CHM, BIO, BCM, IPH, CSC; or other four-credit class approved by the Education Department.
- For certification, take and pass the MTTC Integrated Science test.

Integrated Science Group Minor (Elementary only)

Twenty-eight credits which must include:

- BIO-101 (4 cr) and 121 (4 cr); CHM-103 (4 cr); ENV-110 (4 cr); GEO-113 (4 cr); PSC-380 (4 cr).
- One elective class from ENV-105 (4 cr), GEO-101 (4 cr) or other four-credit class approved by the Education Department.
- For certification, take and pass the MTTC Integrated Science test.

Social Studies Group Major (Elementary only)

Forty-four credits which must include:

- ECN-201 (4 cr) and 202 (4 cr).
- POL-101 (4 cr) and 121 (4 cr).
- GGR -01 (2 cr), 102 (2 cr), and 201 (4 cr).
- HST-100 (4 cr), 101 (4 cr), 104 (4 cr), 105 (4 cr), and 206 (4 cr).
- For certification, take and pass the MTTC Social Studies test.

Mathematics Minor (Elementary)

See MTH Department course listings.

Mathematics Major (Elementary)

Approval pending. Contact Education Department for additional details.

Additional Requirements

In addition to completing appropriate coursework in the Education Department and in the majors and minors, students must meet Alma College graduation requirements and demonstrate personal characteristics suitable for entering the teaching profession.

OPTION 2: Comprehensive Major must include *all* of the following:

- Elementary Education Major - 60 credits of required EDC courses including: 36 credits of Professional Sequence courses and 24 credits of Elementary Education Content and Pedagogy courses (see above). *A 2.5 GPA is required for the Elementary Education certification major and no course for certification may be taken Pass/Fail, except for 1 credit classes, or be graded below a 2.0 (C).*

2. Either a Teaching Major (36 cr) or Teaching Minor (24 cr) in World Language - French, German or Spanish; or a Minor in Early Childhood (ZS) (24 cr) or Special Education - Learning Disabilities (K-12 Major) (36 cr). *A 2.5 GPA is required for each certification major and/or minor and no course for certification may be taken Pass/Fail or be graded below a 2.0 (C).*
3. As Cognates, a Comprehensive Program of 30 credits of required Elementary Education Content courses which must include the following:
 - a. BIO-101 (4 cr).
 - b. PSC-101 (4 cr).
 - c. MTH-202 (4 cr).
 - d. HST-104, 121 or 254 (4 cr).
 - e. HST-206 (4 cr).
 - f. HUM-110 (4 cr).
 - g. IPH-271A (2 cr).
 - h. ENG-225 (4 cr).

No course required for certification may be taken Pass/Fail or be graded below a 2.0 (C).

4. An overall GPA of 2.75 is required for Alma College to recommend a student for certification.
5. The MTTC Test in Elementary Education (passing score required for certification). **Note:** Elementary candidates must pass State tests in their Specialty Area Endorsement (major or minor) to be certified in these areas. For initial certification, MTTC subject-area passing scores will remain valid for five years.
6. Students must provide proof of valid CPR and First Aid cards as required by the Michigan Department of Education for certification.

Early Childhood - General and Special Education Minor (ZS) (Elementary only)

Students working toward elementary certification requirements may choose to complete an Early Childhood Education minor (ZS) by meeting the following requirements (*Please see the Education Department for more information*):

1. EDC-183 (4 cr).
2. EDC-281 (4 cr).
3. EDC-282 (2 cr).
4. EDC-283 (1 cr).
5. EDC-383 (4 cr).
6. EDC-493 (5 cr).
7. SOA-220 (4 cr).
8. For certification, take and pass the MTTC Early Childhood Education test.

Special Education - Learning Disabilities (K-12 Major only) (Secondary or Elementary)

Thirty-six credits which must include:

1. EDC-150 (2 cr) with 105 (1 cr).
2. EDC-250 (3 cr) with 205 (1 cr).
3. EDC-255 (4 cr), 350 (4 cr), 355 (4 cr).
4. EDC-450 (3 cr) with 405 (1 cr).
5. EDC-453 (4 cr) and EDC-455 (3 cr) with 495 (6 cr).
6. For certification, take and pass the MTTC Special Education - Learning Disabilities test

No course graded below 2.0 (C) may count toward a Special Education - Learning Disabilities K-12 Major; a 2.75 GPA is required.

Experimental Program: Non-certifiable minor option

Teacher certification candidates may apply for the Education Department's Experimental Program which allows a student to waive the requirement for **one** teaching minor and replace it with a non-teaching Alma College minor. **A candidate who completes a non-teaching minor will not have that subject area listed on the Michigan teaching certificate and will not be certified to teach in that non-teaching minor subject in Michigan.** Interested teaching candidates must meet with an advisor to discuss the implications and options, and fill out an Education Department APPLICATION and PETITION. See the Education Department for more details.

Additional Requirements

In addition to completing appropriate coursework in the Education Department and in the majors and minors, students must meet Alma College graduation requirements and demonstrate personal characteristics suitable for entering the

teaching profession.

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 that he or she has not been placed on the central registry for substantiated abuse or neglect. All students who have an Education course with a classroom placement must have a background check completed at the Department of Human Services (DHS) in Ithaca, Mich. prior to beginning in their assigned classroom. This service is free of charge and DHS records must be current. See the Education Department Field Experience Coordinator for more details.

Student Teachers - Fingerprinting Procedure

School districts require fingerprinting of student teachers. All student teachers must have the Criminal Background Check Livescan fingerprinting procedure completed by July 15 prior to beginning student teaching in their assigned district. Livescan must be completed at a Michigan Department of Education-approved site and is a statewide procedure. A fee is charged for this service and fingerprint records must be valid within one year. See the Education Department chair for more details.

Admission to the Teacher Education Program (TEP)

The Teacher Education Committee (TEC) reviews all applicants and judges their suitability for entrance to the program during the student's sophomore year. Judgment of this suitability is based on the following:

1. Formal application for admission to the TEP, including completion of a writing component, submitted by the deadline posted in the Education Department Office located in the lower level of the library. This must be completed during the sophomore year. If you have any questions, please see the Chair of the Education Department. (Students who decide to seek teacher certification after the sophomore year can be admitted late but may require extra time to complete the program.)
2. A cumulative Grade Point Average of at least 2.75 and a grade of "C" or above in ENG-101 and MTH-101 or proficiency and evidence of proficiency in basic writing and mathematics skills. Proficiency is a grade of "C" or above in ENG-101 and MTH-101.
3. Passing scores on the Professional Readiness Exam or Alternative Passing Scores.
4. Evidence that the student is making an effort to acquire competence in the humanities, natural sciences and social sciences.
5. Evidence that the applicant has personal characteristics conducive to success in the teaching profession.
6. Good standing (not on academic, social or administrative probation).

Admission to Student Teaching

The Teacher Education Committee (TEC) reviews a student for admission to Directed Teaching (Education 490-491). For all 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 GPA.
4. For secondary: a GPA in the area(s) of concentration - Teaching Major(s) of 2.75; if applicable, a C or above in all classes in the Social Studies Group major.
5. For elementary: a GPA in the Teaching Major(s) of 2.5 with C or above in all courses.
6. A 2.5 GPA in Education courses and a grade of C or above in all courses.
7. Passing scores on the Professional Readiness Exam or Alternative Passing Measures as required by the State of Michigan.
8. In compliance with State of Michigan specifications, satisfactory demonstration of
 - a. high academic achievement.
 - b. successful group work with children in classroom placements.

- c. knowledge of research-based teaching.
- d. working knowledge of modern technology and use of computers. This requirement will be met as students progress through the TEP.

Additional Endorsements

Holders of Michigan Secondary or Elementary Certificates who wish to add Elementary, Early Childhood, or Secondary Endorsements shall present a Planned Program approved by Alma's Education Department.

Additional Notes

1. Admission to the Teacher Education Program is a prerequisite for all classes at the 300 level and above.
2. Note on scheduling: it is expected that students take *no more than one* placement class in any semester.
3. Once approved for student teaching, the requirements must be retained in order to begin the student teaching term.

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.

Thirty-six credits which must include at least 15 upper level credits and must include:

1. Core courses (13 or 14 credits):
 - a. EDC-100 (2 cr) and 120 (2 cr) *or* 103 (1 cr) with 130 (2 cr); EDC-203 (1 cr) with 230 (3 cr).
 - b. EDC-311 (1 cr) and 312 (1 cr); 370 (2 cr); 400 (2 cr).
2. Concentration of at least 12 credits in one of the following or a concentration approved by the department:
 - Young Children: EDC-160 (4 cr), 183 (4 cr), 281 (4 cr), 282 (2 cr), 283 (1 cr), 373 (3 cr) or 150 (2 cr) with 105 (1 cr), 383 (4 cr) or approved courses.
 - Special Needs: Select from EDC-150 (2 cr) with 105 (1 cr), 250 (3 cr) with 205 (1 cr), 255 (4 cr), 350 (4 cr), 355 (4 cr), 450 (3 cr) with 405 (1 cr) 460 (4 cr), or approved courses.
 - Literacy: Select from EDC-160 (4 cr), 346 (4 cr), 360 (3 cr), 460 (4 cr), or approved courses.
 - Pedagogy: Select from EDC-262 (4 cr), 301 (1 cr), 302 (1 cr), 303 (1 cr), 354 (4 cr), 360 (3 cr), 361 (3 cr), 362 (3 cr), 363 (3 cr), 373 (3 cr), 383 (4 cr), 460 (4 cr) or approved courses.
3. Capstone: EDC-470 (5 cr) Internship/experience in an appropriate setting as approved by the department.
4. Electives in EDC courses or other courses approved by the Education Department.

Educational Studies Minor

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

Twenty-four credits which must include at least 8 upper level credits in EDC and must include:

1. Core courses:
 - a. EDC-100 (2 cr) and 120 (2 cr) *or* EDC-103 (1 cr) with 130 (2 cr).
 - b. EDC-311 (1 cr) and 312 (1 cr).
2. Electives in EDC courses or other courses selected in consultation with, and approved by the Education Department.

EDC 090 Professional Readiness Exam I-M

1 cr

Preparation for the Michigan Department of Education mandated Professional Readiness Exam (PRE) Mathematics section. Curriculum is based on the PRE mathematics test standards. A pretest and post-test are given. Recommended only for those students pursuing teacher certification. Credit does not count toward graduation. Fall/Winter. Course fee.

EDC 091 Professional Readiness Exam II-R/W

1 cr

Preparation for the Michigan Department of Education mandated Professional Readiness Exam (PRE) Reading and Writing sections. Curriculum is based on the PRE reading and writing test standards. A pretest and post-test are given. Recommended only for those students pursuing teacher certification. Credit does not count toward graduation. Fall/Winter. Course fee.

EDC 100 Introduction to Diverse Learners

2 cr

An introduction to Learners and Learning. Students reflect upon their own schooling and learning experiences, applying the different perspectives and theories on learning introduced in the course. Students will consider the diversity of learning styles, aptitudes, interests, intelligences, and diverse learner backgrounds. They will begin to consider the role and responsibilities of classroom teachers towards all learners, thus developing understandings they will build on throughout the program. Required for elementary certification. Fall/Winter.

EDC 103 Foundations of Secondary Education

1 cr

A 40-hour field experience to provide hands-on, realistic yet transitional experience/opportunity for those interested in teaching at the high school or middle school level. Must take EDC-130 concurrently. Fall/Winter

EDC 105 Introduction to Special Education-Field

1 cr

Learn to identify patterns of students' strengths and weaknesses, and specify intervention strategies to assist in learning. Introduction to the process of developing, implementing, and evaluating the progress of an IEP. Includes 30 hours of Elementary/Middle/High placement. Pass/Fail only. Required for Special Education K-12 major. Must take EDC-150 concurrently. Winter only.

EDC 120 Teaching in Context

2 cr

Introduction to perspectives on teaching. Historical, philosophical and comparative frameworks and models of teaching, including learning environments and teaching approaches. Examination of multiple purposes and goals of schooling; ethical and professional responsibilities of teachers to multiple stakeholders. Required for elementary certification. Fall/Winter

EDC 130 Foundations of Secondary Education

2 cr

A beginning course that is meant to help the pre-service teacher understand the realities of teaching and the education profession in general. A foundation to assist the student in making a better, more informed career choice about becoming a secondary teacher while also providing cases that secondary teachers must effectively face every day. Required for secondary certification. Must take EDC-103 concurrently. Fall/Winter

EDC 150 Introduction to Special Education

2 cr

Introduction to characteristics and categories of exceptional children, birth through adulthood. Learn the rules and regulations concerning provision of special education and related services. Discussion of historical and legal issues. Learn to develop, implement, and evaluate the progress of an IEP. Required for Special Education K-12 major. Must take EDC-105 concurrently. Winter only.

EDC 160 Children's Literature

4 cr

This standards-based course introduces students to a body of literature written for children and how it may be used across the curriculum; the interactions between readers, texts, and contexts; and critical issues in the selection and use of children's literature. Students will explore, read, and respond to children's literature in a variety of ways that include preparing collections of literary works and activities for use with children. Required for elementary certification. Fall/Winter

EDC 180 Issues and Ideas in Education

2-4 cr

Survey of topics to broaden understanding of teaching and learning. Open to prospective teachers and others interested in education in the United States or in other societies.

EDC 183 Intro to Early Childhood Education 4 cr

Introduction to the early childhood profession, the nature of the profession, including its philosophical, historical and social foundations and current contextual influences (e.g., demographic and policy influences). Familiarization with various types and models of early childhood programs. Includes discussion of characteristics of developmentally appropriate practice. Learn and apply guidelines for the organization and administration of early childhood programs. Required for Early Childhood Endorsement. Winter only.

EDC 190 Field Experience in Education 1-4 cr

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

EDC 203 Child Development & Education - Field 1 cr **UL**

A 40-hour placement in classrooms concurrent with EDC-230. Provides an introduction to the professional roles and responsibilities of teaching all children. Students will be placed in a "home" classroom and work closely with that teacher to observe, assist, and work closely with students applying psychology principles and learning theories. Fall/Winter
Prereq: Sophomore Standing; Take EDC-230 concurrently

EDC 205 Intro to Learning Disabilities - Field 1 cr **UL**

Work with children 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 special education children's learning. Identify and discuss rules of confidentiality. Includes 30 hours of Elementary/Middle/High placement. Pass/Fail only. Required for Special Education-Learning Disabilities K-12 major. Fall only.
Prereq: EDC-105 and 150; Take EDC-250 concurrently

EDC 230 Child Development and Education 3 cr **UL**

An overview of psychological theories and research applied to classroom learning. The course includes study of concepts in human development - cognitive, affective, physical, emotional, moral, and social; study of learning, motivation, and assessment; developmentally appropriate practice; an overview of processes of human development in childhood and adolescence with a focus on socialization and education; and study of the influences of family, community, and culture on education. Required for elementary and secondary certification. Fall/Winter
Prereq: Sophomore Standing; Take EDC-203 concurrently

EDC 240 Learning Env and Reflective Teaching 4 cr **UL**

Examination of characteristics of productive classroom learning environments. Analysis of cases of teaching and learning; evaluation of instructional strategies and activities, technologies, and resources that enhance learning for all learners; planning for classroom management. Includes peer teaching. Required for elementary and secondary certification. Fall/Winter
Prereq: Sophomore Standing

EDC 250 Introduction to Learning Disabilities 3 cr **UL**

Includes the study of the characteristics of children with learning disabilities and interventions/services for these individuals including diagnosis, assessment, and specific remedial techniques. Understand and implement research based theories and philosophies through lesson planning and field placement. Discussion of correlating factors leading to identification. Required for Special Education K-12 major. Fall only.
Prereq: EDC-105 and 150; Take EDC-205 concurrently

EDC 255 Transition Mgmt in Special Education 4 cr **UL**

Covers various life management theories in relation to all curriculum subjects. Students develop skills to effectively manage

children's behaviors and to be effective classroom managers. Engage in strategic planning in the areas of: study skills, self-management, problem solving, reasoning, coping skills, and self-determination skills. Fall only.
Prereq: EDC-105 and 150

EDC 262 Mathematical Thinking & Learning 4 cr **UL**

Investigate particular teaching and learning strategies that may help or hinder different students' learning of mathematics. Focus on interpreting children's mathematical work and examine central questions in mathematics teaching. Develop familiarity with available resources and begin the development of skills and attitudes to learn from teaching and other opportunities. Required for elementary certification. Fall only.
Prereq: Sophomore Standing

EDC 281 Child Dev and Learning: Birth - Age 8 4 cr **UL**

Examination of physical, cognitive, social, emotional and other types of development in infancy and early childhood. Addresses the development of children with special needs and linguistically and culturally diverse backgrounds. Students complete 30 hours of field placement in an early childhood setting. Required for Early Childhood Endorsement. Fall only.
Prereq: EDC-183; Sophomore Standing

EDC 282 School, Family & Community Partnerships 2 cr **UL**

Emphasizes the critical role of family-school partnerships in ensuring children's well-being and academic success. Introduction to historical roles of the family and community in early childhood education. Discussion of barriers to family involvement as well as effects of successful family participation. Addresses various types of family involvement and best practice guidelines associated with each type. Explores models for involving communities as partners in children's care and education. Required for Early Childhood Endorsement. Winter only.
Prereq: Sophomore Standing

EDC 283 The Care & Edc of Infants and Toddlers 1 cr **UL**

A framework for understanding how infants and toddlers grow and learn. Developmentally appropriate curricula and materials will be examined. Required for Early Childhood Endorsement. Fall only.
Prereq: EDC-183, Sophomore Standing

EDC 301 Elem Science & Social Studies - Field 1 cr **UL**

Classroom observation and participation in teaching science and social studies. Includes 40 hours of classroom placement. Pass/fail only. Required for elementary certification. Fall only.
Prereq: TEP Approval; Take EDC-311, 361, and 363 concurrently

EDC 302 Teaching Elem Lang Arts & Math - Field 1 cr **UL**

Classroom observation and participation in teaching language arts and math. Includes 40 hours of classroom placement. Pass/fail only. Required for elementary certification. Winter only.
Prereq: TEP Approval; Take EDC 312, 360, and 362 concurrently

EDC 303 Secondary Ed Methods & Experience 1 cr **UL**

Topics and issues in instructional planning, teaching, and instruction 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 both their major(s) and minor content areas, and will have specialized teaching methods support in those subjects with an emphasis on best practices. Required for secondary certification, except K-12 ART majors who will take EDC-346. Fall only. (Specific topics offered as EDC-303B, EDC-303E, EDC-303H, EDC-303MA, EDC-303MU, EDC-303PE, EDC-303S).
Prereq: TEP Approval; Take EDC-311 concurrently

EDC 306 Elementary Art-Field2 cr **UL**

Classroom observation and participation in teaching art at the elementary level. Required for Art and Design Majors seeking K-12 certification. Pass/fail only. Includes 72 hours of classroom placement.

Prereq: TEP Approval; ART major; Take EDC-345 concurrently

EDC 311 Topics Seminar A1 cr **UL**

Introduction to issues and topics in instructional planning, teaching, and assessment. Required for elementary and secondary certification, and EDS major and minor. Elementary students must enroll concurrently in EDC-301, 361, and 363. Secondary students must take EDC-303 concurrently, except K-12 ART majors. Fall only.

Prereq: TEP Approval

EDC 312 Topics Seminar B1 cr **UL**

Introduction to issues and topics in instructional planning, teaching, and assessment. Required for elementary and secondary certification, and EDS major and minor. Winter only.

Prereq: TEP Approval; Elementary Education students must take EDC-302, 360, and 362 concurrently

EDC 345 Art for Elementary Teachers4 cr **UL**

Examination of art materials and the construction of art programs in the elementary classroom. Required for Art and Design Majors seeking K-12 certification. Course fee.

Prereq: TEP Approval; Take EDC-306 concurrently

EDC 346 Teaching Reading in Middle & Senior High4 cr **UL**

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. Includes a 10-hour off-campus service-learning component. Required for secondary certification. Fall/Winter

Prereq: TEP Approval

EDC 350 Instructional Design in Special Edc4 cr **UL**

Examination of the methods of identification, assessment, and instructional planning for individuals with learning disabilities. Curriculum design and modification/adaptation of instructional materials for struggling children in the special education and general education setting are covered. A variety of classroom practices and strategies which emphasize and promote individual motivation, classroom management, transition planning, the use of assistive technology, and meeting the needs of diverse children are analyzed. Required for Special Education-Learning Disabilities K-12 major. Fall only.

Prereq: EDC-105, 150, 205, 250, 255; TEP Approval

EDC 354 Art for Diverse Learners4 cr **UL**

Explorations of inclusive methods of teaching students with different abilities and diverse social and cultural backgrounds. Lectures, discussions, reading and classroom experiences deal with the nature of disabilities and giftedness. Curriculum, evaluation, space planning and classroom management techniques are studied in relation to the range of abilities that students bring to the contemporary art classroom. Open to students at junior level or above and majoring in art teacher education. Required for Art and Design Majors seeking K-12 certification.

Prereq: TEP Approval

EDC 355 Understanding Stu w/Learning Disability4 cr **UL**

Exploration of brain development and characteristics of children with learning disabilities from early childhood through adolescence. A focus on understanding ways of helping children with learning disabilities succeed through the use of instructional planning, technology, and inclusive education. Analysis of useful and

creative strategies for teaching struggling individuals and understanding the importance and practicality of building support systems with parents, general education teachers, and other community resources. Required for Special Education-Learning Disabilities K-12 major. Winter only.

Prereq: EDC-105, 150, 205, 250, 255; TEP Approval

EDC 360 Teaching Elementary Language Arts3 cr **UL**

Examination of reading and language arts methods. Survey of developmental reading including phonemic awareness, phonics, word recognition, fluency, vocabulary development, and comprehension. Use of assessment to inform instruction, classroom organization and management of the reading program, and methods of teaching language arts, including their interrelationships with reading. Required for elementary certification. Winter only.

Prereq: TEP Approval; Take EDC-302, 312, and 362 concurrently

EDC 361 Teaching Elementary Science3 cr **UL**

Examination of methods and materials in elementary science education. Includes service learning project and action research project. Required for elementary certification. Also requires concurrent enrollment in EDC-301, 311 and 363. Fall only.

Prereq: TEP Approval; Take EDC-301, 311, and 363 concurrently

EDC 362 Teaching Elementary Mathematics3 cr **UL**

This course builds on EDC-262 and focuses on four areas: Teaching mathematics, working with students as individuals, organizing a class, and professionalism and reflective learning. Required for elementary certification. Winter only.

Prereq: TEP Approval; MTH-202 and EDC-262; Take EDC-302, 312, 360 concurrently

EDC 363 Teaching Elementary Social Studies3 cr **UL**

Examination of methods and materials in elementary social studies education. Required for elementary certification. Take EDC-301, 311 and 361 concurrently. Fall only.

Prereq: TEP Approval; Take EDC-301, 311, and 361 concurrently

EDC 370 Instructional and Assistive Technology2 cr **UL**

Builds on basic skills and knowledge demonstrated through successful completion of Technology Modules so that students are well prepared to use technology effectively and appropriately for multiple purposes in their teaching. Students learn to use technological tools, operations, and concepts to enhance learning and assessment, productivity, communication, and professional development. Students learn about the ethical, legal, physical, and psychological issues and principles of technology use in schools. Students utilize technology for curriculum planning and for instruction, including on-line learning experiences. Students learn to use assistive technologies to enhance the learning of all children in ways that best meet individual needs. Required for elementary and secondary certification and EDS major.

Prerequisite modules must be completed before taking this course. Fall/Winter

Prereq: TEP Approval

EDC 373 Special Education for Classroom Teachers3 cr **UL**

Introduction to the teaching of exceptional students. Review of historical and legal issues in special education. Characteristics of exceptional learners, birth through adolescence. Examination of materials and methodology appropriate for instructing exceptional learners in inclusive classrooms. Includes eight-hour practicum. Required for elementary and secondary certification (except Special Education major). Fall/Winter

Prereq: TEP Approval

EDC 383 Curriculum & Methods: Early Childhood4 cr **UL**

Preparation for planning and facilitating developmentally appropriate learning experiences for young children in the content areas of language, literacy, mathematics, science, social studies,

the arts, health and safety. Techniques for adapting instruction to culturally diverse learners and those with handicapping conditions. Preparation in appropriate management and guidance techniques, and designing appropriate physical environments and schedules for young children. Students practice integrating systematic observation of young children's behavior with instructional design and assessment and program evaluation techniques. Students learn techniques for working cooperatively with families in the care and education of their children and with community services and referral procedures for children. Includes a 30-hour practicum in an early childhood site. Required for Early Childhood Endorsement. Classroom placement included. Fall only.

Prereq: EDC-183, 281, 282, 283; TEP Approval

EDC 385 Education Practicum 1-4 cr **UL**

Requires instructor permission.

EDC 399 Education Independent Study 1-4 cr **UL**

Individual investigation of an educational problem planned with faculty in Alma's Education Department.

Prereq: Junior Standing; Permission

EDC 400 Issues and Contexts 2 cr **UL**

Research into current topics and perennially important issues in education. Required for elementary certification and EDS major. Fall/Winter.

Prereq: TEP Approval; Senior Standing

EDC 405 Curriculum Mthds in Special Ed - Field 1 cr **UL**

Demonstration of the understanding of the IEP process by evaluating how goals and objectives are formulated to frame children's learning. Goals within an IEP are identified and an instructional unit implemented incorporating appropriate teaching strategies. Individual growth as a result of the interventions is measured and the success of the instructional methods is analyzed and evaluated. Appropriate individual performance assessments are created. The ability to modify instruction based on assessment data is demonstrated. Includes 30 hours of Elementary/Middle/High placement. Pass/Fail only. Required for Special Education-Learning Disabilities K-12 major. Take EDC-450 concurrently. Fall only.

Prereq: EDC-105, 150, 205, 255, 350, 355; TEP Approval

EDC 430 Student Teaching Seminar 3 cr **UL**

Reflection on student teaching and professional issues. Classroom inquiry and analysis; self-reflection and professional development plans; representation in portfolio, web and interviews; legal and ethical issues. Required for elementary and secondary certification. Taken EDC-490E or 490S and EDC-491E or 491S concurrently. Fall/Winter

Prereq: TEP Approval; TEC Approval; Take EDC-490E or 490S and EDC-491E or 491S concurrently

EDC 445A Methods Secondary Art Teachers 4 cr **UL**

Examination of art media and the construction of art programs in secondary, grades 6-12, classrooms. Topics include multicultural influences on world art, uses of technology in the classroom and current standards and practices in art education. Required for Art and Design Majors seeking K-12 certification. Course fee.

Prereq: TEP Approval

EDC 445F Secondary Methods in Foreign Language 2 cr **UL**

Survey of special teaching methods in student's major field. Survey of special teaching methods in student's major or minor world language field. Required for elementary and secondary world language certification.

Prereq: TEP Approval

EDC 445S Secondary Methods in Social Studies 4 cr **UL**

Survey of special teaching methods in student's major field. Required for secondary social studies certification.

Prereq: TEP Approval

EDC 450 Curriculum Methods in Special Education 3 cr **UL**

Preparation and planning for the development of curriculum and individualized teaching methodology appropriate for individuals with disabilities in the least restrictive environment. Basic principles of instructional design are discussed. Appropriate child performance assessments are created with students demonstrating the ability to modify instruction based on assessment data. Current practices and problems of instructing students with learning disabilities are addressed. Required for Special Education-Learning Disabilities K-12 major. Fall only.

Prereq: EDC-105, 150, 205, 255, 350, 355; TEP Approval; Take EDC-405 concurrently

EDC 453 Assess & Remediation in Special Ed 4 cr **UL**

This course provides pre-service teachers with the knowledge and skills necessary to complete a comprehensive educational evaluation, interpret the results, and develop an instructional plan to address individual youth needs and deficits. Formal and informal assessment procedures are examined and include the evaluation of reading, language, mathematics, social/emotional development, vocational and transitional needs. Techniques for communicating test results are discussed. FERPA rules are addressed. Fall/Winter.

Prereq: EDC-105, 150, 205, 250, 255, 350, 355, 405 and 450; TEP Approval; Take EDC-455 and 495 concurrently

EDC 455 Special Ed Student Teaching Seminar 3 cr **UL**

Work collaboratively to discuss strategic planning for students with learning difficulties. Design and prepare to implement models of collaboration that enhance the participation of special education students within the general education environment. Discuss current topics in special education. Fall/Winter.

Prereq: EDC-105, 150, 205, 250, 255, 350, 355, 405, 450; TEP Approval; Take EDC-453 and 495 concurrently

EDC 460 Teaching the Struggling Reader 4 cr **UL**

Survey of theory and methods associated with reading instruction for struggling readers. Emphasis placed on assessment of reading strengths and needs as well as specific strategies for reading improvement. Includes supervised instruction. Required for elementary certification. Fall/Winter

Prereq: TEP Approval; Senior Standing

EDC 470 Educational Studies Internship 5 cr **UL**

Application of educational concepts, skills, and theory, through participation in a work setting related to student's learning objectives and long-term goals. Supervision by faculty and sponsoring organization. Includes substantive reflection assignment. Requires instructor permission and junior standing. Fall/Winter/Spring/Summer.

Prereq: 12 credits total in EDC including EDC-100 and 120 or EDC-103 and 130; and at least 3 credits of upper-level EDC credits; TEP Approval; Junior Standing.

EDC 480 Topics in Education 2-4 cr **UL**

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

Prereq: Permission

EDC 490E Directed Teaching - Elementary 5 cr **UL**

Teaching under the direction of a cooperating teacher in the public schools. With Department's permission, graduates may enroll in 490E or 490S only. Applications must be filed by November 15 of the year prior to directed teaching. Pass/fail only. Required for elementary certification. Fall/Winter.

Prereq: TEP Approval; TEC Approval; Senior or Post-graduate Standing

EDC 490S Directed Teaching - Secondary

5 cr UL

Teaching under the direction of a cooperating teacher in the public schools. With Department's permission, graduates may enroll for 490S only. Applications must be filed by November 15 of the year prior to directed teaching. Pass/fail only. Required for secondary certification. Fall/Winter

Prereq: TEP Approval; TEC Approval

EDC 491E Directed Teaching - Elementary

5 cr UL

Teaching under the direction of a cooperating teacher in the public schools. With Department's permission, graduates may enroll for 490E or 490S only. Applications must be filed by November 15 of the year prior to directed teaching. Pass/fail only. Required for elementary certification. Fall/Winter

Prereq: TEP Approval; TEC Approval

EDC 491S Directed Teaching - Secondary

5 cr UL

Teaching under the direction of a cooperating teacher in the public schools. With Department's permission, graduates may enroll for 490E or 490S only. Applications must be filed by November 15 of the year prior to directed teaching. Pass/fail only. Required for secondary certification. Fall/Winter

Prereq: TEP Approval; TEC Approval

EDC 493 Directed Teaching: Early Childhood

5 cr UL

Directed teaching experience of 280 hours in an early childhood setting under the guidance of a professional early childhood educator. Under guidance of cooperating teacher, students work effectively with parents as partners in their children's education. Students in the Directed Teaching course regularly reflect on and evaluate their experience with a College Field Instructor. Spring or summer of junior or senior year. Must apply for student teaching by November 15 of junior year and be approved prior to beginning ECE student teaching. Pass/Fail only. Fall/Winter.

Prereq: EDC-183, 281, 282, 283, 383, SOA-220; TEP Approval; TEC Approval

EDC 495 Special Education Student Teaching

6 cr UL

An 8 week directed teaching experience in a special education classroom setting under the guidance of a special education professional. The special education teacher and candidate work collaboratively to discuss strategic planning and accommodations for students with learning difficulties. The candidate will design and prepare to implement units of instruction and will work collaboratively to ensure learning for special education students in a pull-out setting and within the general education environment. Students will differentiate instruction for remediation and modify general education curriculum for student diverse learning needs. Fall/Winter.

Prereq: EDC-105, 150, 205, 250, 255, 350, 355, 405 and 450; TEP Approval; TEC Approval; Take EDC-453 and 455 concurrently

EDC 499 Education Independent Study

4 cr UL

Individual investigation of an educational problem or development of a creative, usable project. Requires senior standing, EDC or EDS Major and Permission.

EDC 500 Senior Thesis

2-4 cr UL

Required for departmental honors.

Prereq: Permission

1. ENG-120, 190, 220, 320, and 420.
2. ENG-250 or 251; and 260 or 261.
3. Eight additional credits of upper level literature selected from the following: ENG-340, 351, 353, 354, 355, 356, 360, 361, 364, 365, 366, 367, 368, 380L, 381, 382, and 383.
4. Required cognate: four credits of foreign language at or above the 112 level to help students appreciate sounds, structure and beauty of a language different from their own.
5. Students who meet Alma's requirements for honors and who present a senior thesis judged to be of honors caliber are eligible for English Department honors.
6. Note: ENG-100, 101 and 110 do not count in the English major. No independent study counts toward the major unless it is approved as a substitute for a major requirement.

Minor Requirements

Twenty-four credits which must include:

1. ENG-120.
2. ENG-250 or 251; and 260 or 261.
3. ENG-190, 201, 220, 225, 270, or 320.
4. Two additional upper level literature courses at the 300-level chosen from: ENG-340, 351, 353, 354, 355, 356, 360, 361, 364, 365, 366, 367, 368, 380L, 381, 382, and 383.
5. Note: ENG-100, 101, and 110 do not count in the English minor.

English Secondary Teaching Major

Same requirements as the English major.

English Secondary Teaching Minor

Same requirements as the English minor.

Language Arts Teaching Major and Minor (Elementary only)

See the Education section of the catalog for list of requirements.

Writing Minor Requirements

Twenty-four credits which must include:

1. ENG-190, 202, and 220.
2. Twelve additional credits chosen from ENG-201, 210, 270, 290, 291, 292, 293, 301, 370, 390, or 391.

Program Considerations

Prospective majors should plan to take ENG-120 in the first year, ENG-220 in the sophomore year, ENG-320 in the junior year, and English 420 in the senior year. **Note:** One foreign language course at or above the 112 level is required for the English major.

ENG-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 and ENG-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

Prerequisites for advanced studies in literature (ENG 340 through 368) are ENG 240, 241, 250, 251, 260 or 261.

Four credits from ENG 110 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

ENG 100 College Rhetoric I

4 cr

Development of writing as a process of thinking and communication that involves stages of generating, drafting and revising. Emphasis on writing in several forms for a variety of purposes and audiences. Review of basic paragraph, sentence and spelling skills. Regular conferences to discuss writing.

ENG 101 College Rhetoric II

4 cr

Developing critical thinking and reading skills with emphasis on analytical, persuasive and research writing. Development of style and voice. Evaluation of writing from various disciplines and contemporary issues. Requires ENG-100 or placement.

ENG 110 Studies in Literature

AH 4 cr

Thematic approach to understanding, analyzing and appreciating literature. Courses may focus on particular genres, like poetry or


English (ENG)

Major Requirements

Thirty-six credits which must include:

the short story, or focus on themes like gothic writers, environmental literature, or the Holocaust. This course is designed to be introductory and is open to students with a wide range of backgrounds and experiences with literary studies. Course does not count toward the English major.


ENG 120 Literary Analysis

 AH 4 cr
Preparation for advanced study of literature and language, including vocabulary, critical approaches, and writing strategies employed in literary analysis. This course is required for a major or minor in English, but open to all students with a solid foundation in reading and writing.

ENG 180 Studies in Literature & Language

AH 2-4 cr
Spring Term session. Science Fiction, as a genre, depends on speculation, on asking "what if." In particular, science fiction speculates on questions like the relationship between humanity and technology, life beyond earth, and the nature of time. We will explore these questions through short fiction, film, and essays that explore the theoretical and scientific questions at the heart of the texts we analyze. As part of this course, students will also learn the basic methodologies for film analysis, including understanding formal elements of film, including mise en Scene, cinematography, editing, and sound.



ENG 181 Diversity Studies in Literature

 AH 4 cr
Studies of literature beyond the American and British canon: Asian American literature, Black women writers, Eastern European and non-Western world literature, and postcolonial writers. Students may register for more than one course under this number.

ENG 182 Off-Campus Studies: American Experience Experience: Literary and Cultural Voices

AH 4 cr
Special emphasis on travel to develop historical and cultural awareness as it adds to the richness of the American literary experience such as writers of the Southwest in Taos, New Mexico, New England writers in Martha's Vineyard and Key West writers in Florida. Genres, periods and authors vary.


ENG 183 Off-Campus: British Literature & Culture

  AH 4 cr
Special emphasis on travel to develop historical and cultural awareness as it adds to the richness of the British literary experience such as Shakespeare and Company in London and Medieval Literature in England. Genres, periods and authors vary.


ENG 190 Introduction to Creative Writing

AH 4 cr
Writing in different genres, including poetry, short fiction, drama and creative nonfiction. Critiquing of student and professional writing.

ENG 201 Advanced Rhetoric

 AH 4 cr **UL**
Exploring the principles of invention, arrangement and style beyond the level of ENG-101. Emphasis on connections between what writers say and how they say it. In-depth critiquing of student and professional writing.
Prereq: ENG-101 or Proficiency

ENG 202 Digital Rhetoric


 AH 4 cr **UL**
Exploration of the rhetorical conventions and contexts of writing in digital contexts, as well as the intersections between textual and visual choices. Students explore writing in a variety of digital contexts and will read and discuss scholarly methods for thinking critically about the place of writing in new media.
Prereq: ENG-101 or Equivalent and a 200-level writing course

ENG 210 Teaching Writing


AH 4 cr **UL**
Development of written fluency and critical evaluation skills; introduction to central theories of reading and writing instruction. Designed for future teachers in any discipline, writing center

advisors, or those going into any field that requires evaluation of writing such as editing and publishing.

ENG 220 Reading, Writing, Research

 AH 4 cr **UL**
Writing workshop for those pursuing a major or minor in English studies. Course focuses upon exploring the different creative and critical modes of writing used in the major and beyond, advanced research methods, and issues in researched writing.
Prereq: ENG-120


ENG 225 General Linguistics

 AH 4 cr **UL**
Understanding the function and structure of language through analysis of its subdivisions: phonetics and phonology, morphology, syntax, semantics and pragmatics, language usage, dialect and historical development.
Prereq: ENG-101, 201, or 202 and sophomore standing


ENG 230 Shakespeare on Film

AH 4 cr **UL**
Study of Shakespeare's plays from the perspective of text and film. Emphasis on understanding selected plays, comparing different interpretations, and comprehending different cinematic styles.
Prereq: ENG-101, 120, 201 or 202


ENG 240 Children in World Literature

 AH 4 cr **UL**
A study of literature written for children and young adults. The range of texts will include Rudyard Kipling's Jungle Book to the popular Hunger Games Trilogy. Lectures and discussions will attempt to describe the embedded cultural assumptions and colonial power structures implicit in children's literature.
Prereq: ENG-101, 120, 201 or 202


ENG 241 Themes in World Literature

 AH 4 cr **UL**
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.)
Prereq: ENG-101, 120, 201 or 202

ENG 250 Survey of British Literature I

 AH 4 cr **UL**
Exploring British literature from its beginning to the end of the 18th century, from Medieval period through the Neo-Classical period.
Prereq: ENG-101, 120, 201 or 202

ENG 251 Survey of British Literature II

 AH 4 cr **UL**
Exploring British literature of the 19th and 20th centuries, from the Romantic era to the present.
Prereq: ENG-101, 120, 201 or 202

ENG 260 Survey of American Literature I

AH 4 cr **UL**
Analyzing American literature from its beginnings to the Civil War, including the Puritan and Romantic periods.
Prereq: ENG-101, 120, 201 or 202

ENG 261 Survey of American Literature II

AH 4 cr **UL**
Examining American literature from the Civil War and the Realistic movement to the present.
Prereq: ENG-101, 120, 201 or 202

ENG 270 Writing for the Media

AH 4 cr **UL**
Examine the basics of writing for various mass media forms - print, broadcasting, and online media. Learn and gain practical experience on the particular journalistic writing skills required for the different media, along with examining related legal and ethical issues.
Prereq: ENG-101 or Proficiency

ENG 290 Poetry Workshop I
 AH 4 cr **UL**
 Exploring the craft of writing poems and practicing the habit of art. In-depth critiquing of student and professional writing.
Prereq: ENG-190 and Permission

ENG 291 Fiction Workshop I
 AH 4 cr **UL**
 Exploring the craft of writing short fiction and practicing the habit of art. In-depth critiquing of student and professional writing.
Prereq: ENG-190 and Permission

ENG 292 Playwriting Workshop
 AH 4 cr **UL**
 Exploring the craft of writing short plays and practicing the habit of art. In-depth critiquing of student and professional writing. Requires instructor permission to register. (Also listed as THD-292.)

ENG 293 Creative Nonfiction Workshop
 AH 4 cr **UL**
 Exploring the craft of writing creative nonfiction and practicing the habit of art. In-depth critiquing of student and professional writing.
Prereq: ENG-190 and Permission

ENG 295 Grant Writing
 AH 4 cr **UL**
 A study of composition focusing on 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.
Prereq: ENG-101 or Permission

ENG 299 English Independent Study
 2-4 cr **UL**
 Requires instructor permission.

ENG 301 Professional Rhetoric
 AH 4 cr **UL**
 Advanced study of style and rhetoric in a variety of professional writing contexts, including creative, educational, and corporate environments.
Prereq: ENG-101 or equivalent and a 200-level writing course

ENG 320 Critical Theory
 AH 4 cr **UL**
 Surveys modern literary and critical discourse with emphasis on understanding and applying different theoretical approaches to literature.
Prereq: ENG-220 and one upper level literature course

ENG 340 Women's Literature
 AH 4 cr **UL**
 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.
Prereq: Two courses in literature

ENG 351 Chaucer
 AH 4 cr **UL**
 Study of Chaucer's major works, including the *Canterbury Tales* and *Troilus and Criseyde*, and/or selected works of Chaucer's contemporaries.
Prereq: Two courses in literature

ENG 353 The English Renaissance
 AH 4 cr **UL**
 Selected study of English Renaissance texts ranging from More's *Utopia* to Milton's *Paradise Lost*. Includes works by authors such as Marlowe, Spenser, Donne, Herbert, Jonson and Marvell.
Prereq: Two courses in literature

ENG 354 Shakespeare
 AH 4 cr **UL**
 Study of Shakespeare's plays offering a representative survey of the major histories, comedies and tragedies.

Prereq: Two courses in literature

ENG 355 British Romanticism and Victorians
 AH 4 cr **UL**
 Study of the major 19th-century British writers from Blake to Hopkins. Includes such authors as Wordsworth, Coleridge, Keats and the Brownings, and such essayists as Wollstonecraft, Hazlitt, Carlyle and Pater.
Prereq: Two courses in literature

ENG 356 Modern British & Irish Literature
 AH 4 cr **UL**
 Study of major British and Irish authors since 1900, including Yeats, Joyce, Eliot, Woolf and Beckett.
Prereq: Two courses in literature

ENG 360 Transatlantic 18th Century Literature
 AH 4 cr **UL**
 Study of the literature of "the long Eighteenth Century" from a transatlantic perspective. This course examines the emergence of the novel, as well as the impact of the slave trade and of the Enlightenment on the literature of Britain, the Americas and the Caribbean. Authors include Equiano, Wheatley, Behn, Swift, Defoe, Burney, Godwin, Brown and Foster.
Prereq: Two courses in literature

ENG 361 Modern American Writers to 1865
 AH 4 cr **UL**
 Examines in depth selected writers from the Revolution to the Civil War, with a special focus on the struggle to define an "American" literature. Includes such authors as Brown, Irving, Poe, Douglass, Jacobs, Dickinson, Melville, Hawthorne, Whitman and Stowe.
Prereq: Two courses in literature

ENG 364 Studies in Drama
 AH 4 cr **UL**
 Studies of issues and developments in English language drama from the Restoration to the present. Individual sections might be organized by themes, by period (i.e., Restoration or 20th-century drama), or by focusing on multiple works by playwrights such as Dryden, Behn, Farquhar, Shaw, O'Neill, Williams, Albee, Churchill, or Fugard.
Prereq: Two courses in literature

ENG 365 Studies in the Novel
 AH 4 cr **UL**
 Studies of issues and developments in English language novel. Individual sections might be organized by themes, by periods, or by focusing on multiple works by authors as diverse as Defoe and DeLillo, Richardson and Rushdie, or Melville and Morrison.
Prereq: Two courses in literature


ENG 366 Modern American Literature
 AH 4 cr **UL**
 Studies of American literature from post-WWII to the present.
Prereq: Two courses in literature

ENG 367 African American Literature
 AH 4 cr **UL**
 Study of African American Literature as a distinct tradition beginning with the experience of enslavement and influenced by African and African American oral cultural heritage.
Prereq: Two courses in literature

ENG 368 American Indian Literature
 AH 4 cr **UL**
 Study of the rich and varied literary tradition's roots in oral culture and its modern and contemporary expressions.
Prereq: Two courses in literature

ENG 370 Journalistic Studies and Projects
 AH 4 cr **UL**
 Variable topics: magazine article writing and marketing, extended literary journalism, history of journalism, print promotion and group publicity.
Prereq: ENG 270 or Permission

ENG 380 Studies in Literature & Language
AH 1-4 cr **UL**
The study of various topics such as Holocaust literature, the dramas of AIDS, contemporary Scottish literature and travel literature. Students may register for more than one course under this number.
Prereq: Two courses in literature

ENG 381 Diversity Studies in Literature
 AH 4 cr **UL**
Studies of literature beyond the American and British canon: Asian American literature, Black women writers, Eastern European and non-Western world literature, and postcolonial writers. Students may register for more than one course under this number.
Prereq: Two courses in literature

ENG 382 Off Campus Studies: American Experience-Literary and Cultural Voices
AH 4 cr **UL**
Special emphasis on travel to develop historical and cultural awareness as it adds to the richness of the American literary experience such as writers of the Southwest in Taos, New Mexico, New England writers in Martha's Vineyard and Key West writers in Florida. Genres, periods and authors vary.
Prereq: Two courses in literature


ENG 383 Off-Campus: British Lit & Culture
AH 4 cr **UL**
Special emphasis on travel to develop historical and cultural awareness as it adds to the richness of the British literary experience such as Shakespeare and Company in London and Medieval Literature in England. Genres, periods and authors vary.
Prereq: Two courses in literature

ENG 385 English Practicum 2-8 cr **UL**
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. Requires instructor permission.

ENG 390 Poetry Workshop II
AH 4 cr **UL**
Advanced workshop in the art and craft of writing poems. In-depth critiquing of student and professional writing. Creating a chapbook of poems and giving a public reading.
Prereq: ENG-190, 290 and Permission


ENG 391 Fiction Workshop II
AH 4 cr **UL**
Advanced workshop in the art and craft of writing fiction. In-depth critiquing of student and professional writing. Creating a chapbook of fiction and giving a public reading.
Prereq: ENG-190, 291 and Permission

ENG 399 English Independent Study 2-4 cr **UL**
Requires 24 completed English credits with "B" average and permission.

ENG 420 Senior Seminar
 AH 4 cr **UL**
A sustained investigation in the study of language and literature that draws upon the expertise developed in previous English courses. Topics will vary each term. Students will complete a seminar project and submit a portfolio of their writing in the major.
Prereq: ENG-320, three upper level literature courses and senior standing

ENG 490 Independent Study in Creative Writing
AH 2-4 cr **UL**
Independent study in creative writing.
Prereq: ENG-390 or 391, and Permission

ENG 499 English Independent Study 2-4 cr **UL**
Requires 30 credits completed in the English department with 'B' average, and permission.

ENG 500 Senior Thesis 1-4 cr **UL**
 Requires instructor permission.

Environmental Studies (ENV)

Major Requirements

Potential majors are highly recommended to consult with the ENV program chair(s) as soon as possible to develop an appropriate curricular plan. A firm grasp of statistics is critical for all of the major tracks and a minimum of MTH 116 (which counts towards the Distributive Requirements in the Natural Sciences - Mathematics/Computation) is expected. Further mathematical and analytical requirements will be discussed between the potential major and program chair(s) and will be tailored to the student's specific academic and career goals.

1. The ENV major consists of 30 core credits and 28 credits in one of three tracks of study according to the student's interest.
2. Core: ENV-105; ENV-110 or GEO-101; BIO-120 or 121; CHM-115; and three courses selected from: POL-141, PHL-225, COM-253, and ECN-340; Capstone experience: ENV-480.
3. Tracks: Complete 28 credits in one of the following tracks:
 - a. **Environmental Health:** Eight upper-level credits in science including: BIO-207 or IPH-226; BIO-308 or 309; four additional upper-level credits in an environmental topics course (ENV 380); 12 credits from: IPH-270, 328, 331, 430; four credits from: COM-243 or 343.
 - b. **Environmental Policy:** Twelve credits selected from: PAF-150, 350, POL-131, 217, 225, 242 and 341; four credits from: HST-122 or POL-335; four credits from: COM-227 or 327; four credits from: PHL-228 or SOA-325; four credits from: ECN-340.
 - c. **Environmental Science:** Twenty upper-level credits from programmatic coursework from IPH, BIO, CHM, BCM, PHY, MTH/CSC; eight additional, upper-level elective credits that refine the student's interest in the realm of environmental studies.

Minor Requirements

Twenty-six credits which must include: ENV-110; 8 credits from ENV-105, BIO-120, 121; CHM-115; 12 credits from: POL-141, PHL-225, ECN-340 and COM-253; and two credits from ENV-480.

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 to fulfill NS-3 distributive requirements. MTH-121 is required for most graduate work.

ENV 105 Intro to Environmental Studies 4 cr
NS1
Examination of humans and their relationship to the natural environment. Explores current status of environmental problems, controversies and solutions. Laboratory. Course fee.

ENV 110 Environmental Geology 4 cr
NS2
Investigation into the causes of geologic hazards such as earthquakes, mass movement, volcanoes and desertification. Includes investigation into geologic process 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 380 Environmental Problems & Issues 4 cr **UL**
NS1
Examination of selected environmental issues and problems.

Content varies. Topics may include pollution, energy, natural resources, land use planning and recycling.
Prereq: ENV-105 or 110 or Permission

ENV 380L Conservation - Restoration Bio 0 cr **UL**

An advanced study of the phenomena that affect the maintenance, loss, and restoration of biological diversity. Quantitative laboratory with a focus on reading and synthesizing primary literature, statistics and writing; some field studies and a field trip required. Writing intensive with Quill status pending.

ENV 385 Environmental Studies Practicum 1-4 cr **UL**

Practicum in the field of Environmental Studies.
Prereq: ENV-105, 110 and 1 additional course from the ENV curriculum

ENV 480 Topics Seminar in Environmental Studies 2 cr **UL**

Capstone course in environmental studies. Interdisciplinary approach incorporating scientific knowledge with policy and humanistic issues that are applied to real-life environmental problems.

Prereq: Sixteen credits of ENV or Senior Standing or Permission

ENV 499 Environmental Studies Independent Study 1-4 cr **UL**

Independent study in the field of environmental studies.
Prereq: ENV-105, 110 and 1 additional course from the ENV curriculum

Exercise & Health Studies (EHS)

All 100-level courses are graded pass/fail.

All courses numbered 200 and above will receive a letter grade.

EHS 110 Beginning Tennis 1 cr
 Activity-based course. Course fee.

EHS 112 Beginning Golf 1 cr
 Activity-based course. Course fee.

EHS 118 Racquetball 1 cr
 Activity-based course. Course fee.

EHS 130 Beginning & Adv Beginning Swimming 1 cr
 Activity-based course. Course fee.

EHS 131 Adv Begin/Intermediate Swimming 4 cr
 Activity-based course. Course fee.

EHS 150 Fitness for Life 1 cr
 Introduction to lifetime activities for physical fitness and cardiovascular health; includes fitness testing and personalized exercise prescription.

EHS 154 Conditioning 1 cr
 Activity-based course. Course fee.

EHS 156 Strength Training 1 cr
 Activity-based course. Course fee.

EHS 157 Aerobic Exercise 1 cr
 Activity-based course. Course fee.

EHS 160 Individual Activity 1 cr
 Activity-based course. Course fee.

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 with the instructor.

EHS 180 Topics in EHS 2-8 cr
 Activity-based course. Course fee.

EHS 199 EHS Independent Study 1-4 cr
 Activity-based course. Course fee.

EHS 200 Lifeguarding 2 cr
 Fundamentals of lifeguarding. Satisfactory completion of this course qualifies student for American Red Cross lifeguarding certification. Course fee.

EHS 201 Water Safety 2 cr
 Requires Advanced Life Saving Certificate.

EHS 202 SCUBA Diving 2 cr
 SCUBA diving is a course designed to prepare students for SCUBA certification as a SCUBA schools international (SSI) open water diver. Students will complete a classroom component as well as a pool component. Course fee.

EHS 203 Advanced Open Water SCUBA Diving 2 cr
 Designed to enhance the performance skills completed in EHS-202. Students complete a classroom component as well as a pool component. Course fee.
Prereq: EHS-202

EHS 350D Principles of Coaching for Teachers 2 cr **UL**
 Designed as a variable content course with the subject to be determined on a demand basis. Topics may include basketball, football, soccer, track, volleyball or baseball/softball.

EHS 399 EHS Independent 1-4 cr **UL**

Foreign Service (FOR)

FOR 385 Foreign Service Practicum 1-8 cr **UL**

FOR 400 Seminar 4 cr **UL**
 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.
Prereq: Permission

FOR 499 Foreign Service Independent Study 1-8 cr **UL**

Individual research culminating in the preparation of a major paper. Work should be initiated during the Fall Term of the senior year.

French (FRN)

French courses, as designated by the three-letter prefix FRN, are offered through the Modern Languages Department.

Department Honors

Students may achieve honors in the Modern Languages Department by:

- Having a 3.5 GPA in all language classes,
- Performing beyond minimum requirements on the Language Exam portion of the Departmental Comprehensive Evaluation, and
- Presenting a senior thesis of honors caliber.

Advanced Credit

Advanced Credit in a second language may be earned by

- Scoring at the 4 level or higher on the Advanced Placement (AP) exam.
- Successfully completing the International Baccalaureate Program (IB) HL exam with a score of 5.

Major Requirements

1. Thirty-six credits beyond FRN-112 which must include at least four credits from each of these two groups: FRN-301, 371, 372, 377; FRN-350, 354, 355, 356, 360.
2. Language proficiency must be demonstrated by passing the DELF B2 exam or its equivalent.
3. A minimum of one semester of approved international study in a French speaking country.
4. Successful completion of ENG-201 or ENG-225.
5. Write an acceptable reflective paper of moderate length and defend it in open forum.

Majors may earn honors in the department by writing a quality senior thesis and defending it in open forum.

Minor Requirements

1. Twenty-four credits in French, which includes one upper-level course in civilization or literature.
2. Language proficiency must be demonstrated by passing the DELF B1 exam or its equivalent.
3. A semester or Spring Term of study in a French-speaking country is highly recommended.

Teaching Major Requirements

1. Thirty-four of Alma's 36-credit-hour major must be beyond FRN-222 and include at least 4 credits from each of these groups: Civilization - FRN-301, 371, 372, 377; and Literature - FRN-350, 354, 355, 356, 360.
2. A minimum of one semester of approved international study in a French-speaking country.
3. Successful completion of ENG-225 (formerly 220) and EDC-445F.
4. Write and defend in open forum an acceptable paper of moderate length reflecting on their study of French, their study abroad experience and how they combine with the mission of a liberal arts education.
5. In order to be recommended for teacher certification, students must pass the Michigan Test for Teacher Certification subject area test in French as well as an appropriate external exam demonstrating language proficiency at a level commensurate with ACTFL's Advanced-Low. The Teacher Education Program is proactive about informing students of opportunities for taking these tests.

Teaching Minor Requirements

1. Twenty-three of Alma's 24-credit-hour minor must be beyond FRN-222 and include at least four credits from each of these groups: Civilization - FRN-301, 371, 372, 377; and Literature - FRN-350, 354, 355, 356, 360.

2. A semester or Spring Term of study in a French-speaking country is highly recommended.
3. Successful completion of ENG-225 (formerly 220) and EDC-445F.
4. In order to be recommended for teacher certification, students must pass the Michigan Test for Teacher Certification subject area test in French as well as an appropriate external exam demonstrating language proficiency at a level commensurate with ACTFL's Advanced-Low. The Teacher Education Program is proactive about informing students of opportunities for taking these tests.

The course numbers FRN 291-*391, 292-*392, 293-*393, 294-*394, and 295-*395 are reserved for courses taken on College-approved programs of study abroad. Level determined by FRN 222 and placement.

Four credits from FRN 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

FRN 111 Beginning French I

LA 4 cr
Introduction to French. 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.

FRN 112 Beginning French II

AH LA 4 cr
Introduction to French. 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.
Prereq: FRN-111 or Permission

FRN 169 Quebec

AH 4 cr
An introduction to the province of Quebec, designed for students with one year of college French or more. Readings cover the history of the province, its political struggles, and its artistic expression. Includes a visit to Montreal, and extended stay at Laval University, museum visitations, and limited excursions. Course fee. Spring term.
Prereq: Permission

FRN 170 Paris in May

AH LA 4 cr
Provides two academic components: language study and French culture. Students attend a regular language class through Alma College at the Alliance Francais (any level) and study cultural history of Paris through selected readings, directed visits and shows. Course fee. Spring Term.
Prereq: Permission

FRN 207 French Conversation I

AH LA 2 cr
Extensive class discussion, oral reports, summaries of selected readings and viewing materials to develop fluency in oral expression and comprehension. Reading and discussion of numerous topics, which change each year. May be repeated for up to four credits. Does not count toward the French majors or minors.

FRN 221 Intermediate French I

AH LA 4 cr
Systematic study of grammar and further development of speaking and writing skills through readings and discussions.
Prereq: FRN-112 or Placement

FRN 222 Intermediate French II

AH LA 4 cr
Systematic study of grammar and further development of speaking and writing skills through readings and discussions.
Prereq: FRN-221 or Placement

FRN 255 French Literature in Translation
 ⓘ 4 cr
 A study of representative literary works in translation from the French canon. Readings/lecture/discussion in English.

FRN 291 French Language Studies
 ⓘ 2-4 cr
 Further study of grammar and development of reading, writing, speaking and listening skills.

FRN 292 Targeted French Language Studies
 ⓘ 2-4 cr
 Targeted study of written French, oral French, or pronunciation.

FRN 293 Studies in History & Civilization
 ⓘ 2-4 cr
 Topics in French, Francophone, or regional history, culture, art, or film.

FRN 294 Studies in French & Francophone Lit
 ⓘ AH 2-4 cr
 Studies in literature on a variety of topics or genres.

FRN 295 Studies in Business French
 ⓘ AH 2-4 cr
 Study of business French for commercial communication with the French-speaking world.

FRN 307 French Conversation II
 ⓘ AH 2 cr **UL**
 Extensive class discussion, oral reports, summaries of selected readings and viewing materials to develop fluency in oral expression and comprehension. Reading and discussion of numerous topics, which change each year. May be repeated for up to four credits. Does not count toward the French majors or minors.

FRN 321 French Composition & Conversation
 ⓘ AH 4 cr **UL**
 Advanced composition and conversation with extensive writing and emphasis on speaking skills. Includes reading, discussions and debate on a wide variety of cultural topics.
Prereq: FRN-222

FRN 350 Study in French Literature
 ⓘ AH 4 cr **UL**
 Studies in literature which emphasize different centuries, genres or themes. May be taken more than once for credit.
Prereq: FRN-321 or Permission

FRN 354 From Labelle Epoque to the 1990S
 ⓘ AH 4 cr **UL**
 Study of major literary movements and authors of the 20th century.
Prereq: FRN-321 or Permission

FRN 355 History of French Literature I
 ⓘ AH 4 cr **UL**
 Study in French literature from its origins to the late 20th century. Readings from significant works of each literary period.
Prereq: FRN-321 or Permission

FRN 356 History of French Literature II
 ⓘ AH 4 cr **UL**
 Study in French literature from its origins to the late 20th century. Readings from significant works of each literary period.
Prereq: FRN-321 or Permission

FRN 360 Francophone Literature
 ⓘ AH 4 cr **UL**
 Studies in French-speaking, non-European countries' literatures. Addresses Afro-French literature, French-Caribbean literature, or French-Canadian literature.
Prereq: FRN-321 or Permission

FRN 369 Quebec
 ⓘ AH 4 cr **UL**
 An introduction to the province of Quebec, designed for students with one year of college French or more. Readings cover the

history of the province, its political struggles, and its artistic expression. Includes a visit to Montreal, and extended stay at Laval University, Course fee. Spring term.
Prereq: Permission

FRN 370 Paris in May
 ⓘ AH LA 4 cr **UL**
 Provides two academic components: language study and French culture. Students attend a regular language class through Alma College at the Alliance Francais (any level) and study cultural history of Paris through selected readings, directed visits and shows. Course fee. Spring Term.
Prereq: Permission

FRN 371 History of French Civilization I
 ⓘ AH 4 cr **UL**
 Introduction to French civilization and culture to 1715. Political, social and religious institutions; art, architecture, music and literature.
Prereq: FRN-321 and Permission

FRN 372 History of French Civilization II
 ⓘ AH 4 cr **UL**
 Introduction to French civilization and culture from 1715 to present. Political, social and religious institutions; art, architecture, music and literature.
Prereq: FRN-321 and Permission

FRN 377 Studies in French Film
 ⓘ AH 4 cr **UL**
 Studies in French film, emphasizing the critical analysis of technical and artistic applications, socio-historical contexts and directors' personal styles.
Prereq: FRN-321 or Permission

FRN 380 Topics in French Language, Lit and Civ
 ⓘ AH 4 cr **UL**
 Various topics such as Afro-French literature and culture, the French novel, the short story, French literary criticism and theory, study of individual authors, social structures in modern France, the press in France, the French educational system, modern French art and others.
Prereq: FRN-321 or Permission

FRN 391 French Language Studies
 ⓘ 2-4 cr **UL**
 Further study of grammar and development of reading, writing, speaking and listening skills.

FRN 392 Targeted French Language Studies
 ⓘ 2-4 cr **UL**
 Targeted study of written French, oral French, or pronunciation.

FRN 393 Studies in History & Civilization
 ⓘ 2-4 cr **UL**
 Topics in French, Francophone, or regional history, culture, art, or film.

FRN 394 Studies in French & Francophone Lit
 ⓘ AH 2-4 cr **UL**
 Studies in literature on a variety of topics or genres.

FRN 395 Studies in Business French
 ⓘ AH 2-4 cr **UL**
 Study of business French for commercial communication with the French-speaking world.

FRN 495 Senior Thesis Part I
 ⓘ AH 1 cr **UL**
 Prior to enrollment in FRN 500. Designed to set the preliminary work toward the senior thesis in motion. Students will be required to work on a bibliography, outline, and prospectus of the forthcoming thesis.
Prereq: Permission

FRN 499 French Language Independent Study 4 cr **UL**

Prereq: Senior Standing; Permission

FRN 500 Senior Thesis 4 cr **UL**

Prereq: Permission

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, and 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.

Prereq: GGR-101

GGR 201 Contemporary World Geography 4 cr **UL**

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.

Prereq: GGR-101 and 102 or Permission

Geology (GEO)

Four credits from GEO, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Physical Sciences.

GEO 101 Physical Geology 4 cr

Overview of physical Earth processes including rock and mineral formation, weathering and erosion, volcanism, seismicity and glaciation. Topics focus on central theme of plate tectonics. Also included are tectonic mechanisms responsible for structural change and landforms. Laboratory. Course fee.

Prereq: MTH-099 or 101

GEO 112 Introduction to Michigan Basin Geology 4 cr

Field-oriented course focusing on 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.

Prereq: MTH-101

GEO 113 Dynamic Earth 4 cr

Study of the earth's dynamic systems as explained by plate tectonics theory. Examination of rock and fossil records. Laboratory. Course fee.

Prereq: MTH-101

Gerontology (GER)

Minor Requirements

Core of 24-26 credits: IPH 212 or BIO 101, GER 385, GER 480, PHL 229, PSY 260, PSY 280 (Advanced Psychology of Aging), SOA 234, and at least two elective credits from any course(s) deemed relevant by the Gerontology Advisory Committee.

GER 380 Gerontology Seminar 2-4 cr **UL**

GER 385 Gerontology Practicum 1-8 cr **UL**

Requires instructor permission.

Prereq: Permission

GER 480 Senior Seminar 2-4 cr **UL**

Multidisciplinary capstone seminar for gerontology minors.

Prereq: Permission

German (GRM)

German courses, as designated by the three-letter prefix GRM, are offered through the Modern Languages Department.

Department Honors

Students may achieve honors in the Modern Languages Department by:

- Having a 3.5 GPA in all language classes,
- Performing beyond minimum requirements on the Language Exam portion of the Departmental Comprehensive Evaluation, and
- Presenting a senior thesis of honors caliber.

Advanced Credit

Advanced Credit in a second language may be earned by

- Scoring at the 4 level or higher on the Advanced Placement (AP) exam.
- Successfully completing the International Baccalaureate Program (IB) HL exam with a score of 5.

Major Requirements

1. Thirty-six credits in German language, civilization and literature beyond GRM-112.
2. A minimum of one semester of approved international study in a German-speaking country.
3. Completion with a passing grade of *Goethe-Zertifikat B2* or its equivalent.
4. Successful completion of ENG-201 or ENG-225.
5. Write and defend in open forum an acceptable paper of moderate length reflecting on their study of German, their study abroad experience and how they combine with the mission of a liberal arts education.

Majors may earn honors in the department by writing a quality senior thesis and defending it in open forum.

Minor Requirements

1. Twenty-four credits in German, which includes one upper-level course in civilization or literature.
2. Completion with a passing grade of the *Zertifikat Deutsch B1* or its equivalents.
3. A semester of international study in a German-speaking country is highly recommended.

Teaching Major Requirements

1. Thirty-four of Alma's 36-credit-hour major must be beyond GRM-222.
2. A minimum of one semester of approved international study in a German-speaking country.
3. Successful completion of ENG-225 (formerly 220) and EDC-445F.

- Write and defend in open forum an acceptable paper of moderate length reflecting on their study of German, their study abroad experience and how they combine with the mission of a liberal arts education.
- In order to be recommended for teacher certification, students must pass the Michigan Test for Teacher Certification subject area test in German as well as an appropriate external exam demonstrating language proficiency at a level commensurate with ACTFL's Advanced-Low. The Teacher Education Program is proactive about informing students of opportunities for taking these tests.

Teaching Minor Requirements

- Twenty-three of Alma's 24-credit-hour minor must be beyond GRM-222.
- A semester of international study in a German-speaking country is highly recommended.
- Successful completion of ENG-225 (formerly 220) and EDC-445F.
- In order to be recommended for teacher certification, students must pass the Michigan Test for Teacher Certification subject area test in German as well as an appropriate external exam demonstrating language proficiency at a level commensurate with ACTFL's Advanced-Low. The Teacher Education Program is proactive about informing students of opportunities for taking these tests.

Four credits from GRM 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

GRM 111 Beginning German I

LA 4 cr
Introduction to German. Primary objective: to enable students to begin early and meaningful communication in German by acquiring necessary basic skills. Emphasizes skills in speaking, listening, reading and writing. Secondary objective provides insight through participation in German culture and society. (Alma, Germany)

GRM 112 Beginning German II

AH LA 4 cr
Introduction to German. Primary objective: to enable students to begin early and meaningful communication in German by acquiring necessary basic skills. Emphasizes skills in speaking, listening, reading and writing. Secondary objective provides insight through participation in German culture and society. (Alma, Germany)
Prereq: GRM-111 or Placement

GRM 200 German Masterpieces

AH 4 cr UL
Reading and discussion of selected works of German literature in English translation, including Böll, Brecht, Fontane, Goethe, Grass, Hesse, Hochhuth, Hauptmann, Kafka, Th. Mann, Maron, Plenzdorf. Does not count toward major or minor. (Alma)

GRM 221 Language and Culture

AH LA 4 cr UL
Continuation of GRM 112 with additional emphasis on reading and writing skills, augmented by detailed study of German contemporary culture. Extensive grammar review and intensive oral-aural practice. Class conducted in German. (Alma and Germany)
Prereq: GRM-112 or Placement

GRM 222 Introduction to Reading

AH LA 4 cr UL
Intensive reading and discussion of selected German material of medium difficulty designed to acquaint students with critical reading skills. Emphasis on reading skills, vocabulary acquisition, German syntax and expanded writing skills. (Alma and Germany)
Prereq: GRM-221, Placement, or Permission

GRM 231 Composition and Conversation I

AH LA 4 cr UL
Systematic study of grammar and further development of speaking and writing skills through reading, discussion, intensive laboratory and classroom drill. (Germany)
Prereq: GRM-112 or Permission

GRM 232 Composition and Conversation II

AH LA 4 cr UL
Systematic study of grammar and further development of speaking and writing skills through reading, discussion, intensive laboratory and classroom drill. (Germany)
Prereq: GRM-112 or Permission

GRM 252 Aspects of German Culture II

AH LA 4 cr UL
Intermediate level investigation of various aspects of contemporary German civilization and culture through speaking, writing, laboratory exercises, reading exercises and discussion. (Germany)
Prereq: GRM-112 or Permission

GRM 299 Readings in the Arts and Sciences

AH LA 1-8 cr UL
Designed for students who wish to develop reading abilities in sciences and humanities. Specific readings reflect individual needs and interests. (Alma)
Prereq: GRM-112 or Permission

GRM 311 Advanced Conversation and Composition I

AH LA 4 cr UL
Refinement and extension of language skills through consideration of contemporary issues and experiences from internet, newspapers, magazines and audio-visual materials. Expanded oral composition, extensive and intensive written composition. Review of selected grammatical problems. (Alma and Germany)
Prereq: GRM-222 or Permission

GRM 312 Advanced Conversation and Composition II

AH LA 4 cr UL
Refinement and extension of language skills through consideration of contemporary issues and experiences from internet, newspapers, magazines and audio-visual materials. Expanded oral composition, extensive and intensive written composition. Review of selected grammatical problems. (Alma and Germany)
Prereq: GRM-222 or Permission

GRM 313 Intensive Language Practice

AH LA 4 cr UL
Review of selected grammatical problems; refinement of speaking, reading and writing skills through extensive classroom and laboratory practice. (Germany)
Prereq: GRM-222 or Permission

GRM 315 Selected 20th Century Authors

AH LA 4 cr UL
Representative authors of the 20th century such as Thomas Mann, Hermann Hesse, Heinrich Böll, Bertolt Brecht, Günter Grass, Ingeborg Bachmann, Christa Wolf and Monika Maron. Problems of literary and human response to transition and flux of modern society are explored. (Alma)
Prereq: GRM-222 or Permission

GRM 316 The German Novelle

AH LA 4 cr UL
Investigation of the Novelle; its style, historical development and variants in German literature with examples drawn primarily from the 19th and 20th centuries. Readings from Kleist, Brentano, Tieck, Storm, Stifter, Droste-Hülshoff, Kafka and Mann. (Alma)
Prereq: GRM-222 or Permission

GRM 321 German Culture and Civilization I

AH LA 4 cr UL
In-depth investigation of modern German culture and civilization from Bismarck to emergence of National Socialism. (Alma)
Prereq: GRM-222 or Permission

GRM 322 German Culture and Civilization II

AH LA 4 cr UL
Continuation of German culture and civilization with emphasis on the present; in-depth consideration of current social-political problems and possible solutions; the place of a unified Germany in a new European political-economic order. (Alma)
Prereq: GRM-222 or Permission

GRM 341 Introduction to German Literature

 AH LA 4 cr UL

Introduction to German literature through the study of form and genre. Stress on formal structuring of literature and the communicative process. Examples drawn from a wide range of periods, styles and milieux. Basic literary theory. (Alma)

Prereq: GRM-311 or Permission

GRM 350 Postwar German Short Stories

 AH LA 4 cr UL

The course, conducted in German, investigates the adoption of the genre "Kurzgeschichte" from American literature in postwar German literature and explores how West- and East-German writers, by means of this genre, come to terms with their pasts from 1950s through 1970s. (Alma)

Prereq: GRM-311 or Permission

GRM 401 Advanced Composition and Stylistics I

 AH LA 4 cr UL

Concentration on areas of composition and style, both oral and written, which pose difficulty for the advanced student; emphasis also given to advanced oral practice. (Germany)

Prereq: GRM-312 or Permission

GRM 402 Advanced Composition and Stylistics II

 AH LA 4 cr UL

Continued oral and written investigation into advanced grammar with attention to individual problems defined in previous study. Reading of contemporary culture and literary sources. Advanced oral practice. (Germany)

Prereq: GRM-401

GRM 403 Advanced Composition and Stylistics III

 AH LA 4 cr UL

Extensive investigation into points of concern for advanced German students, stressing intensive and extensive reading, conversation and writing to allow mastery of stylistic difficulties and idiomatic expressions. Questions and abilities investigated beyond the normal range of German study. (Germany)

Prereq: GRM-402

GRM 411 The Age of Goethe

 AH LA 4 cr UL

Study of literature and society surrounding the lifetime of Goethe, generally including the most significant authors and works from 1750-1825.

Prereq: GRM-341 or Permission

GRM 412 Social Engagement in 19th & 20th Century

 AH 4 cr UL

Investigation of the significant ideas affecting the individual and position in society, the alteration of expectations, social forces and basic cultural changes as seen in works of authors such as Lenz, Büchner, Hebbel, Heine, Hauptmann, Kafka, Brecht, Grass, Böll, Hochhuth, Weiss and Maron. (Alma)

Prereq: GRM-341 or Permission

GRM 420 Advanced German for Teachers

 SO 2 cr UL

Intensive review combined with cultural exposure and a stay abroad. Intended for persons who already possess a good command of German, but especially for high school instructors (Germany) Requires GRM major or minor; prior teaching experience.

GRM 499 German Independent Study

 4 cr UL

Prereq: Senior Standing; Permission

GRM 500 Senior Thesis

 4 cr UL

Prereq: Permission

Greek (GRK)

Greek courses, as designated by the three-letter prefix GRK, are offered through the Modern Languages Department. The courses listed are offered periodically upon sufficient demand.

Four credits from GRK 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

GRK 111 Classical Greek I

LA 4 cr

Study of basic Greek grammar, morphology and vocabulary, culminating in the reading of elementary classical and New Testament texts.

GRK 112 Classical Greek II

 AH LA 4 cr

Study of basic Greek grammar, morphology and vocabulary, culminating in the reading of elementary classical and New Testament texts.

Prereq: GRK-111 or Permission

Health Studies (HSS)

HSS 201 Health, Medicine and Humans

4 cr

Topics in physiology, health and medicine including a laboratory experience which emphasizes diagnostic testing. Sample topics include circulation, respiration, digestion, reproduction and excretion.

Hebrew (HEB)

Hebrew courses, as designated by the three-letter prefix HEB, are offered through the Modern Languages Department. The courses listed are offered periodically upon sufficient demand.

Four credits from HEB 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

HEB 111 Biblical Hebrew

LA 4 cr

Introduction to Old Testament Hebrew. Includes grammar and elementary reading.

HEB 112 Advanced Biblical Hebrew

 AH LA 4 cr

Advanced reading of a variety of styles of Old Testament Hebrew with emphasis on grammatical form analysis and word study as related to critical-literary examination of the Old Testament.

Prereq: HEB-111

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).

Major Requirements

1. Thirty-six credits which must include HST-323, 325, 326 or another 300-level American history course pre-approved by the Department; HST-300, 330, 331 or another 300-level European history course pre-approved by the Department; HST-353, 360 or another 300-level non-Western history course pre-approved by the Department; and one 400-level seminar (not an independent study).
2. All 36 credits that count toward the major must be taken for 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.
3. No more than eight credits may be taken by proficiency to count toward the 36 credits required for the major. Students seeking credit by proficiency must obtain permission from the instructor for the courses in question and from a History Department committee. Students seeking credit by proficiency must pay the appropriate fee(s) and show proof of such payment to the Department chair. The instructor must prepare a written statement indicating what a student must do to obtain credit for proficiency.
4. Successful completion in the student's senior year of the comprehensive examination administered by the Department is mandatory.
5. Honors candidates must have a minimum overall of 3.3 GPA and a 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.

Teaching Major Requirements

1. Thirty-six credits which must include HST-323, 325, 326 or another 300-level American history course pre-approved by the Department; HST-300, 330, 331 or another 300-level European history course pre-approved by the Department; HST-353, 360 or another 300-level non-Western history course pre-approved by the Department; and one 400-level seminar (not an independent study).
2. HST-100, 101, 104, 105, 206.
3. The following cognate courses, unless a student is taking one or more of the following as part of another major or minor the student is completing: ECN-201, GGR-101, GGR-102, POL-101.
4. Students seeking a history teaching major are strongly urged to have an academic advisor who is a tenured or tenure-track member of the History Department.

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; freshmen admitted only with permission of the instructor.

Four credits from HST, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Social Sciences.

HST 100 World History Survey I

SO 4 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.

HST 101 World History Survey II

SO 4 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.

HST 104 The Making of America to 1877

SO 4 cr
Examines American history from colonial times to Reconstruction; concentration on political, constitutional, social, economic and intellectual problems. (ESPI/GP)

HST 105 The American Century: 1877-Present

SO 4 cr
Political, economic, social and intellectual issues from Reconstruction to the present. Focuses on 1877-1990. (ESPITH/GP)

HST 121 American Legal History I

SO 4 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 4 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 130 Women in European History

SO 4 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.

HST 140 American Women's History

SO 4 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 180 Topics & Problems in History

SO 2-4 cr
Today, the internet has made an unprecedented amount of information available to us. But in the past, humans have experienced other "information revolutions." In Europe, the development of the printing press (c. 1450) facilitated an unprecedented exchange of knowledge. This course examines sixteenth- and seventeenth-century Europe through some of the most popular books of the time, as well as recent scholarship on printing in early modern Europe. We will consider what sort of books European readers sought most frequently. We also will explore the challenges that this newly accessible information posed for religious and political authorities.

HST 180C China: History and Culture

AH SP 4 cr
This course allows students to personally experience China and Chinese people by exploring their history, culture, and society. Students will meet Chinese people, exchange ideas with their Chinese counterparts, visit businesses, and rural communities. We will learn not only China's rich ancient history and culture, but also its current dynamic economic developments and social changes. China is a land of diversity that few people in the world will realize until they see it. R
Prereq: Permission

HST 199 Independent Study in History

1-4 cr
Prereq: Permission

HST 200 Ancient Near East

SO 4 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)

<p>HST 201 Ancient Greece  SO 4 cr An overview of ancient Greece from Minoa 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)</p>	<p>promise and failure of democracy in the Weimar Republic, rise and fall of Nazism, and emergence of a united, democratic Germany out of the divided society of the postwar era. Emphasis is on the struggle between liberalism and authoritarianism in shaping modern Germany, but also explores major social, economic and cultural developments. (ESPIT/GP)</p>
<p>HST 202 Ancient Rome  SO 4 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)</p>	<p>HST 249 Russian Studies  SO 4 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)</p>
<p>HST 203 Medieval World  SO 4 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.</p>	<p>HST 253 Asian Studies: Modern China & Japan  SO 4 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)</p>
<p>HST 206 Approaches to Michigan History  SO 4 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. Course fee.</p>	<p>HST 254 Colonial Americas  SO 4 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.</p>
<p>HST 207 American Foreign Relations SO 4 cr Introductory survey and examination of the American foreign relations, including policy-making process and implementation, from 1890s to the present. Analyzes the expansion of American Empire, World Wars I and II, the Vietnam War, the Cold War and the Post-Cold War era. (ESPITH/GP)</p>	<p>HST 255 Latin America Since 1825  SO 4 cr Analyzes selected countries. Caudillos and dictators, reform and revolution, neocolonialism and imperialism, economic growth and development. (ESPI/GP)</p>
<p>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. (GP) <i>Prereq: Permission</i></p>	<p>HST 260 Introduction to African History  SO 4 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)</p>
<p>HST 221 English History  SO 4 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.</p>	<p>HST 271 Science & Public Health: A Global Study  SO 4 cr Germ theory and bacteriology revolutionized the knowledge of disease. This course studies modern public health in a global perspective, covering details about Europe, the United States, and China.</p>
<p>HST 228 Immigration & Ethnicity in American Hist SO 4 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)</p>	<p>HST 272 Plagues and Peoples  SO 4 cr Scientific and historical approaches to explore the connections between major epidemics and world history, combining a general overview of the subject with more focused case studies. Study the social, economic, political, cultural, religious, and technological contexts in which epidemics arose, how those contexts shaped responses to them, and the impact of these epidemics on society at large. <i>Prereq: Permission</i></p>
<p>HST 238 Europe in Upheaval, 1914-45  SO 4 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)</p>	<p>HST 277 Am Studies: Civil War & Reconstruction SO 4 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)</p>
<p>HST 240 Modern Germany  SO 4 cr Survey of German history since 1815, with emphasis on the period 1848-1945. Topics include historic characteristics of major German regions, emergence of a modern industrial economy, the failed liberal revolution in 1848, unification, politics of Imperial Germany,</p>	<p>HST 280 Topics and Problems in History SO 2-4 cr Provides exposure to leadership of those working currently, or historically, to secure minimum standards for protecting human rights and limiting or ending conflict. Course will study institutions created to address the need for international law and protection of rights and dignity. Students will be immersed in the reasons for</p>

and implementation of international standards and institutions to protect human rights, especially related to rules of war. A core component of this course is students develop a plan to address challenges and further build on solutions observed during the course.

HST 299 History Independent Study

1-4 cr UL

300-, 400- and 500-level courses are recommended for sophomores, juniors and seniors. Freshmen admitted only with permission of the instructor.

HST 323 Creating the Republic, 1763-1815

SO

4 cr UL

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)

Prereq: Sophomore Standing, and one history course or Permission

HST 325 Reform & Search for Order

SO

4 cr UL

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)

Prereq: Sophomore Standing, and one history course or Permission

HST 326 The Roosevelt Revolution, 1932-45

SO

4 cr UL

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)

Prereq: Sophomore Standing, and one history course or Permission

HST 327 Constitutional History

SO

4 cr UL

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.

Prereq: Sophomore Standing, and one history course or Permission

HST 330 The Medieval Mediterranean

SO

4 cr UL

Examines the historical background of the ancient Mediterranean then proceeds to the rise and expansion of Islam through contact, commerce, conflict and crusade. Discuss political, economic and religious narratives alongside equally important developments in the roles that culture, gender, piracy, slavery, and technology played in shaping the peoples of the Mediterranean.

Prereq: Sophomore Standing and one history course or Permission

HST 331 The Renaissance & Reformation

SO

4 cr UL

Analysis of European society in the crucial era of transition from the medieval to the modern world, Renaissance in Italy and northern Europe, humanism, Protestantism, the Counter-Reformation and religious wars. (ESPI/GP)

Prereq: Sophomore Standing, and one history course or Permission

HST 332 Inquisitions

SO

4 cr UL

Few institutions in history are as infamous as the Inquisition. It represents some of the most notorious instances of intolerance and violence produced by religious belief. Our knowledge of this institution, however, too often relies upon myth. This course, thus, explores how religious authority functioned during a time very different from our own. Readings examine inquisition documents, as well as scholarship on Spain's inquisition and other inquisitions in Europe and the Americas.

Prereq: Sophomore Standing, and one history course or Permission

HST 333 European Enlightenment

SO

4 cr UL

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 supersitition. 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.

Prereq: Sophomore Standing, and one history course or Permission

HST 335 London Pre-Seminar

SO

4 cr UL

HST 335 is the preparatory course taken in Alma in the winter before the spring term London Research Seminar. Introduction to advanced historical research, focusing on World War II. Interpret the relevant aspects of World War II, as well as the rudiments of British culture and history. Includes major research project. Prerequisites include HST-328 or another approved HST course and instructor permission.

Prereq: HST 238 or another approved history course and Permission

HST 353 China's 20th Century Revolution

SO

4 cr UL

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)

Prereq: Sophomore Standing, and one history course or Permission

HST 360 South African History

SO

4 cr UL

Introductory survey of main themes and problems in recent South African historiography. Focuses on early colonial roots of segregation and white supremacy, impact of British rule and mineral revolution, development of institutionalized racism through segregation and radical apartheid program, ethnic conflict, constitutional problems, industrialization and urbanization, and Afrikaner and black nationalism. Also analyzes contemporary crisis and potential for conflict resolution in this key area of confrontation between the developed and developing worlds. (ESPI/GP)

Prereq: Sophomore Standing, and one history course or Permission

HST 380 Topics and Problems in History


SO

2-4 cr UL

Today, the internet has made an unprecedented amount of information available to us. But in the past, humans have experienced other "information revolutions." In Europe, the development of the printing press (c. 1450) facilitated an unprecedented exchange of knowledge. This course examines sixteenth- and seventeenth-century Europe through some of the most popular books of the time, as well as recent scholarship on printing in early modern Europe. We will consider what sort of books European readers sought most frequently. We also will explore the challenges that this newly accessible information posed for religious and political authorities.

Prereq: *Sophomore Standing, and one history course or Permission*

HST 380C China: History and Culture

 4 cr **UL**

This course allows students to personally experience China and Chinese people by exploring their history, culture, and society. Students will meet Chinese people, exchange ideas with their Chinese counterparts, visit businesses, and rural communities. We will learn not only China's rich ancient history and culture, but also its current dynamic economic developments and social changes. China is a land of diversity that few people in the world will realize until they see it.

Prereq: *Permission*

HST 385 Internship in History

4-12 cr **UL**

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.


Prereq: *Permission*

HST 399 History Independent Study

1-4 cr **UL**

Prereq: *Permission*

HST 407 Foreign Policy Seminar

 4 cr **UL**

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)

Prereq: *Permission*

HST 433 World War II Seminar

 4 cr **UL**

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.

Prereq: *Permission*

HST 434 Comparative Fascism

 4 cr **UL**

Research seminar compares the varieties of fascism 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)

Prereq: *Permission*

HST 435 London Research Seminar

 4 cr **UL**

Focus on World War II, primarily in Europe, using the National Archives of the United Kingdom in London. Study various aspects of history and culture, in relation to World War II, Britain and Western civilization as a whole, by visiting selected museums, galleries, cathedrals, palaces and other historical landmarks in the greater London area and other selected British locations. Continue archival research and development of papers written in HST 335. (ESPITH/GP)

Prereq: *HST-238, 335 and Permission*

HST 480 Topics and Problems in History

 2-4 cr **UL**

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.

Prereq: *Permission*

HST 499 History Independent Study

1-4 cr **UL**

Advanced bibliography and selected problems.

Prereq: *Permission*

HST 500 Senior Thesis

1-4 cr **UL**

Prereq: *Permission*

Humanities (HUM)

HUM 100 Fine Arts Education

AH 4 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. Spring Term session includes a three-day trip to Chicago to experience a dance performance, play, concert and a trip to the Art Institute of Chicago. Carries "S" course designation when offered in Spring Term.

HUM 110 Fine Arts Education

AH 4 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. Spring Term session includes a three-day trip to Chicago to experience a dance performance, play, concert and a trip to the Art Institute of Chicago. Carries "S" course designation when offered in Spring Term.

HUM 180 Topics in Humanities

2-10 cr

Courses in the humanities, often incorporating an interdisciplinary focus from two or more programs, which do not fit within current departmental boundaries.

HUM 385 Humanities Practicum

4 cr **UL**

Requires instructor permission.

HUM 399 Humanities Independent Study

1-4 cr **UL**

Requires instructor permission.

Integrative Physiology and Health Science (IPH)

IPH Major Requirements

1. Core: 20 credits consisting of IPH-220, 225, 226, 327, and 344.
2. Concentration: 16 credits from one of the following:
 - a. Clinical Exercise Physiology: IPH-310, 328, 340, 418, 419, and 420.
 - b. Pre-therapy: IPH-310, 345, 346, 401 and 6 credits from IPH-323, 324, 328, 418, 419, 420, and 430.
 - c. Pre-medicine: IPH-310; 270 or 331 or 430; 328 or 340; and 6 credits from the previous options or IPH-270, 328, 340, 345, 346, 401, 418, 419, 420, or 430.
 - d. Public Health: IPH-270, 331, and 430 and 4 credits from IPH-223, 310, 328, or 340.
3. Either completion of the Senior Oral Comprehensive Examination administered by the Department, completion of Senior Seminar (IPH-480) or completion of a Senior Thesis

(IPH-500).

- At least one practicum experience is strongly recommended for all IPH Majors. **Note:** For some concentrations, First Aid and CPR certification are required by external internship/practicum programs.

IPH Minor Requirements

Twenty-four credits which must include IPH-225, 226, 327 and 344.

NOTE: No activity courses (EHS-110 through 165) may count toward the non-teaching major or minor and no more than six activity course credits may be applied toward the 136 required for the bachelor's degree.

Athletic Training Major (ATH)

The Athletic Training Education Program (ATEP) is an accredited program by the Commission on Accreditation of Athletic Training Education. Each Athletic Training Student (ATS) is required to complete a minimum of four semester-long clinical assignments and accumulate a minimum of 1,000 clinical experience hours during their clinical experiences with 250 hours completed in an intensive equipment sport. The ATS will gain valuable practical experience in the practice, game coverage and rehabilitation of the varsity and junior varsity intercollegiate sports at Alma College. Other clinical rotations include a physical therapy clinic, family practice medicine clinic, high school, corporate wellness program and orthopedic medicine practice.

Admission Requirements: Students must apply to the ATEP. The program is competitive and acceptance is based on the number of available clinical positions. Students must complete the following to be reviewed for admittance: apply and be accepted into Alma College; and a separate application to the ATEP is required. Contact Phil Andre, MS, AT, ATC for an application packet. The admission process takes place once a year and admission occurs by August 1 of each year.

Selection Criteria for the Athletic Training Education

Program: Each entering class is admitted to the ATEP in the fall semester. Admission to Alma College is required for, but does not guarantee, acceptance into the ATEP. The program is selective and can accommodate a limited number of students each year. This number may vary depending on the number of preceptors, available clinical assignments, and Alma College's Athletic Training facilities. Prospective students must have all application materials completed to be considered for admission. Applications for Provisional Admission to the ATEP will be reviewed on an ongoing basis until the class is filled.

The applicant will be notified of their status by August 1 for fall admission.

Preference will be given to those applicants who have:

- Completed the Athletic Training Application
- High college grade point average
- High grade point average in high school
- Three letters of recommendation
- Interviewed by the Athletic Training staff. These interviews will take place following submission of application material.

After being provisionally accepted into the ATEP, students must complete the following to achieve full admittance:

- Pass IPH-105, Clinical Experience I, with a minimum GPA of 3.0.
- Pass IPH-221, First Aid and CPR with a minimum GPA of 2.50.
- Achieve a minimum cumulative GPA of 2.50 for all completed course work (based on all college-level work computed both at Alma College and at other institutions).
- Hold the following valid certifications (or their equivalents):
 - Standard First Aid and Safety - American Red Cross.
 - CPR for the Professional Rescuer - American Red Cross.
- Complete a minimum of 65 observational hours under the direct supervision of a preceptor within the ATEP at Alma College. These hours need to be recorded on the appropriate form, which is provided and does not count toward the 1,000-hour clinical requirement.
- Receive a positive observation evaluation from the Program Director and preceptors of the ATEP. This evaluation reflects the student's performance in the clinical setting, potential as a student athletic trainer, and the student's potential to become a professional in the athletic training

field.

- Acceptance of the Technical Standards.
- Demonstrate a recent Hepatitis B vaccination or a signed waiver form.
- Receive a TB screening.

Once admitted to the program the ATS is required to meet certain standards for retention including a minimum GPA and successful completion of required clinical skills. In addition, there are some financial costs involved with the ATEP. The specific policies are located in the ATS handbook or contact the ATEP Director.

Transfer Students: Transfer students must fulfill all the program requirements as indicated. The ATEP Director and the Registrar will evaluate the coursework from the previous institution to determine the courses that meet the requirements of Alma College and the ATEP.

Athletic Training Major Requirements

Core: 20 credits consisting of IPH-220, 225, 226, 327 and 344.

Concentration: 40 credits consisting of IPH-221, 222, 323, 324, 325, 326, 328, 340, 345, 427, 480 and eight credits of Clinical Experiences IPH-105, 106, 205, 206, 305, 306, 405 and 406.

Secondary Physical Education Teaching Major Requirements

Forty-two credits which must include IPH-220, 221, 225, 226, 271, 327, 331, 334, 344, 345, 418, and 419; one from EHS-150, 154, 156M and 157; two from EHS-110, 112, 118, and 165A, 165B, 165S, 165V; and one from THD-140 and 141. Recommended, but not required, is IPH-201.

IPH 105 Clinical Experience Athletic Training I

1 cr

Combines the required proficiencies of a level one student with a clinical field experience.

IPH 106 Clinical Experience Athletic Training II

1 cr

Combines the required proficiencies of a level one student with a clinical field experience.

Prereq: B or better in IPH-105 or Permission

IPH 205 Athletic Training III

1 cr

Combines the required proficiencies of a level two student with a clinical field experience.

Prereq: B or better in IPH-106 or Permission

IPH 206 Athletic Training IV

1 cr

Combines the required proficiencies of a level two student with a clinical field experience.

Prereq: B or better in IPH-205 or Permission

IPH 210 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.

IPH 212 Physiology of Aging

NS1

4 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.

Prereq: BIO-121

IPH 214 Faith & Physiology

NS1

4 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 of mind-body connections are addressed through extensive laboratory

experiences. Intended for non-science majors. Laboratory.

IPH 215 Human Structure and Function
NS1 4 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 IPH Major or Minor. Students who have taken IPH-226 or BIO-207 should not take this course. Laboratory.

IPH 220 Nutrition
NS1 4 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.

IPH 221 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.

IPH 222 Principles of Athletic Training
4 cr
Introduction to the general principles of athletic injuries. Course fee.
Prereq: IPH-221

IPH 223 Issues in Global Women's Health
2 cr
Develops an understanding of the full spectrum of factors which define illness or well-being in women's health from a global perspective. This includes investigating and understanding the social conditions of populations and how these conditions affect the health of women.

IPH 225 Human Physiology I
NS1 4 cr UL
Study of physiological functions of the human body and the relationship of systems to the maintenance of homeostatic balance. Includes applications of physiological principles to practical issues in medicine and physical performance. Laboratory. Course fee.
Prereq: BIO-121

IPH 226 Human Physiology II
NS1 4 cr UL
Study of physiological functions of the human body and the relationship of systems to the maintenance of homeostatic balance. Includes applications of physiological principles to practical issues in medicine and physical performance. Laboratory. Course fee.
Prereq: BIO-121 and IPH-225, may take IPH-344 concurrently

IPH 270 Community Health
SL 4 cr
A direct application class which provides hands-on experience gathering, entering, analyzing and interpreting actual health data. Students spend two weeks conducting Heart Fairs in eight local school districts with sixth-grade children. During the Heart Fairs, the children are educated and assessed on various heart disease risk factors. Course fee.
Prereq: Permission

IPH 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.
Prereq: EDC-100, 120, and 160 or Permission

IPH 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.
Prereq: EDC-103 and EDC-130, or Permission.

IPH 280 IPH Seminar
1 cr
Topics in physiology selected by the instructor. Students expected to give a presentation.
Prereq: Junior Standing

IPH 303 Stress Management
2 cr UL
Investigation of stressors in the work, social and self environments. The physiology of stress and deep relaxation techniques studied as an introduction to life style redesign.
Prereq: Sophomore Standing

IPH 305 Clinical Athletic Training V
1 cr UL
Combines the required proficiencies of a level three student with a clinical field experience.
Prereq: B or better in IPH-206 or Permission

IPH 306 Clinical Athletic Training Vi
1 cr UL
Combines the required proficiencies of a level three student with a clinical field experience.
Prereq: B or better in IPH-305 or Permission

IPH 310 Introduction to IPH Research
2 cr UL
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 Exercise Science.
Prereq: Junior Standing or Permission

IPH 323 Therapeutic Modalities
2-3 cr UL
Physiological principles and application of various therapeutic modalities utilized in the treatment of musculoskeletal injuries. Laboratory.
Prereq: Permission

IPH 324 Therapeutic Exercise
2-3 cr UL
Methods and principles utilized in the rehabilitation of injuries of the physically active. Laboratory.
Prereq: IPH-226 and Permission

IPH 325 Orthopedic Assessment I
4 cr UL
Knowledge and practical application of theory and assessment methods necessary for the recognition of signs and symptoms of upper extremity injuries. Laboratory.
Prereq: Permission

IPH 326 Orthopedic Assessment II
4 cr UL
Knowledge and practical application of theory and assessment methods necessary for the recognition of signs and symptoms of lower extremity injuries. Laboratory.
Prereq: Permission

IPH 327 Physiology of Exercise
NS1 4 cr UL
Exploration of the physiological process in relation to exercise in everyday life, and to sports and recreational activities. Laboratory. Course fee.
Prereq: IPH-226 or BIO-207

IPH 328 Human Diseases
NS1 4 cr UL
Introduction to the pathophysiologic study of disease in humans.
Prereq: IPH-226, BIO-207 or Permission

IPH 331 Health Promotion
NS1 4 cr UL
Provides critical information for planning, implementing, and evaluating health promotion programs in the workplace, schools, community or health care setting.
Prereq: Junior Standing

IPH 334 Theory & Practice of Individual Sports4 cr **UL**

Analysis of the skills of badminton, tennis and golf, and methods of instruction unique to each sport. Assumes basic proficiency in each sport. Course fee.

Prereq: Permission

IPH 340 PharmacologyNS1 4 cr **UL**

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.

Prereq: IPH-226 or BIO-207

IPH 344 Human AnatomyNS1 4 cr **UL**

In-depth study of human anatomy with laboratory experience. Course fee.

Prereq: IPH-226, may be taken concurrently

IPH 345 Biomechanics I2 cr **UL**

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.

Prereq: IPH-344

IPH 346 Biomechanics II2 cr **UL**

Continuation of IPH 345. Emphasis on experimental procedures in biomechanics and kinesiology. Laboratory.

Prereq: IPH-345 or Permission

IPH 380 Topics in Integrative Phys & Health Sci1-4 cr **UL**

Spring Term session explore sports nutrition and the relationship between the food you eat and your athletic performance. Considers how nutrition influences various body processes associated with energy production and recovery from exercise. We will also sample healthy foods, cooking vigorous meals, and engage in extensive physical activities including cycling, jogging, zumba, and weight training. Includes two overnight bike trips and one extended trip covering 30-50 miles per day. Students will design and complete a research project associated with sports nutrition.

IPH 380M Motor Control / Motor LearningNS1 4 cr **UL**

This course is designed to provide students an overview of theory, research, and practice in motor learning and control. Students develop an understanding of the cognitive, behavioral, neurophysiological and biomechanical approaches to motor skill learning. Special attention is given to the relationship between motor skill acquisition and motor control theories.

Prereq: IPH-226 and CHM-115

IPH 385 Integrative Phys & Health Sci Practicum1-4 cr **UL**

Designed for off- or on-campus placement combining academic orientation with practical preprofessional experience. Maximum of eight credits.

Prereq: Permission

IPH 390A Senior Fitness2-4 cr **UL**

Instructor permission required.

IPH 390B Field Work in IPH2-4 cr **UL****IPH 401 Molecular Aspect of Muscle Physiology**NS1 4 cr **UL**

Detailed analysis of recent advances in our understanding of muscle function. Includes basic mechanisms of contraction, neuromuscular control and plasticity/adaptation 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. Course fee.

Prereq: IPH-226 and CHM-115

IPH 405 Clinical Athletic Training VII1 cr **UL**

Combines the required proficiencies of a level four student with a clinical field experience.

Prereq: B or better in IPH-306 or Permission

IPH 406 Clinical Athletic Training VIII1 cr **UL**

Combines the required proficiencies of a level four student with a clinical field experience.

Prereq: B or better in IPH-405 or Permission

IPH 418 EKG Interpretation2 cr **UL**

Assessment and interpretation of the normal and abnormal electrocardiogram. Includes analysis of EKG changes associated with disease states and pharmacological treatments. Laboratory.

Prereq: IPH-226 or BIO-307

IPH 419 Stress Testing2 cr **UL**

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.

Prereq: IPH-418

IPH 420 Exercise Prescription2 cr **UL**

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.

Prereq: IPH-327 and IPH-419

IPH 427 Administration of Athletic Training4 cr **UL**

Prepares the athletic training student with the organizational and administrative theories utilized in the management of an athletic training facility.

Prereq: Permission

IPH 428 Exercise Testing & PrescriptionNS1 4 cr **UL**

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.

Prereq: IPH-327

IPH 430 EpidemiologyNS1 4 cr **UL**

Presents concepts, principles and methods generally used in the surveillance and investigation of health-related events.

Prereq: BIO-121 and Junior Standing, or Permission

IPH 499 IPH Independent Study2-4 cr **UL**

Research in Integrated Physiology and Health Science under the supervision of the Department culminating in a thesis or research project.

Prereq: IPH Major; Permission

IPH 500 Senior Thesis4 cr **UL**

Requires instructor permission.

Latin (LAT)

Latin courses, as designated by the three-letter prefix LAT, are offered through the Modern Languages Department. The courses listed are offered periodically upon sufficient demand.

Four credits from LAT 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

LAT 111 Elementary Latin I
LA 4 cr
Phonetics, morphology, syntax and semantics preparatory to the translation of simple texts such as Caesar and Pinius.

LAT 112 Elementary Latin II
Ⓜ AH LA 4 cr
Continuing study of phonetics, morphology, syntax and semantics preparatory to the translation of simple texts such as Caesar and Pinius.
Prereq: LAT-111 or Permission

Library Research (LIB)

LIB 110 Introduction to Library Research 2 cr
Introduces a wide range of research and information literacy skills, including defining and narrowing a research topic, effectively using print and electronic sources, and ethical information use.

LIB 310 Research and Technology 2 cr **UL**
Introduction to techniques of 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 computers.

LIB 385 Library Practicum 1-4 cr **UL**
Study-work program in the College Library or another library.

Mathematics (MTH)

Major Requirements

- Thirty-six credits which must include:
 - MTH-121, 122, 210, 223, 310, and 421 or 431.
 - Twelve other upper-level Mathematics credits.
- Two required cognate courses:
 - CSC-120.
 - A course, other than a Mathematics course, approved by the Department, with a Mathematics prerequisite numbered 113 or higher.
- The senior comprehensive examination includes three parts: successful completion of the Major Field Test in Mathematics, submission of an approved writing sample and an approved oral presentation.
- At least one statistics course is recommended.
- Students interested in graduate school in mathematics should complete both MTH-421 and 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.

Minor Requirements

Twenty-four credits which must include MTH-121, 122, 210 and at least two other upper-level Mathematics courses. (MTH-099, 101 and 202 do not count toward the Minor.)

Secondary Teaching Major Requirements

Same as for the Mathematics major except that the program must include MTH-341, 411, and 421.

Secondary Teaching Minor Requirements

Twenty-six or 28 credits in Mathematics that must include MTH-120, 121, 122, 223, 411; 117 or 310; and 116 or 341.

Elementary Teaching Minor Requirements

Twenty-four credits which must include MTH-110; 116; 120; 113 or 121; CSC-118, 220; NMS-114 and four additional credits at the MTH-110 level or above. (MTH-099, 101 and 202 do not count toward the Elementary Teaching Minor.)

Mathematical Sciences Major Requirements

Fifty-two credits which must include MTH-121, 122, 210, 223, 310, 336, 341, and 421 or 431; Computer Science 120 and 220, and 12 additional credits in upper-level Mathematics or Computer Science courses, at least four credits of which must be Computer Science. Courses which combine applications and theory are encouraged (e.g. MTH-211, 342, 391, 399 or 499; and CSC-240, 310, 420, 430, 440, or 499). The senior comprehensive examination includes three parts: successful completion of the Major Field Test in Mathematics, submission of an approved writing sample and an approved oral presentation.

Restrictions

The following combinations of double majors are not permitted: Mathematical Sciences and Mathematics; and Mathematical Sciences and Computer Science.

Four credits from MTH 110 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Mathematics/Computation.

MTH 099 Basic Core Mathematics 4 cr
Designed for students with very weak backgrounds in mathematics. Focuses primarily on skills development, including the arithmetic of real numbers, construction and interpretation of graphs, introduction to linear relationships and simple notations from statistics. Credits do not count toward graduation. Pass/fail only.

MTH 101 Basic Algebra 4 cr
Fundamentals of elementary algebra. Includes addition, subtraction and multiplication of polynomials, factoring of polynomials, the quadratic formula, graphing of equations, systems of equations and inequalities. May not be taken for credit by students who have successfully completed Mathematics 112 or a higher course.
Prereq: MTH-099 or Placement

MTH 110 Liberal Arts Mathematics 4 cr
NS3
Exploration of the beauty, extent and power of mathematics. Specific topics to be selected by the instructor.
Prereq: MTH-101 or Placement

MTH 111 Mathematics in Art & Nature 4 cr
NS3
Mathematics in the visual and musical arts and the plant and animal worlds. Topics include Fibonacci sequence, the golden section, Archimedean and logarithmic spirals, one- and two-point perspective, tessellations of the plane, and Escher-like constructions.
Prereq: MTH-101 or Placement

MTH 112 Pre-Calculus 4 cr
NS3
Designed for students with strong high school mathematics backgrounds who plan to include a calculus course (Mathematics 113 or 121) in their programs. Investigates polynomial, rational, exponential, logarithmic and trigonometric functions. Explores the ideas of functions and graphs, with emphasis on concepts and skills central to calculus. Requires placement. May not be taken for credit by students who have successfully completed MTH-121, 122 or 210.

MTH 113 Brief Calculus 4 cr
NS3
Introduction to differential and integral calculus. Focuses on applications; theory held to a minimum. Examples from business

and the natural and social sciences. Background in trigonometry not needed.

Prereq: MTH-112 or Placement

MTH 116 Elementary Statistics

NS3 4 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.

Prereq: MTH-101 or Placement

MTH 117 Intro to Matrices & 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.

MTH 120 Discrete Mathematics

NS3 4 cr

Introductory survey of propositional logic, functions, relations, counting methods and graph theory. Discussion of applications to computer science.

Prereq: MTH-112 or Placement or 4 years of high school math

MTH 121 Calculus I

NS3 4 cr

Introduction to the calculus of one variable. Includes limits and continuity, the derivative and applications, the integral and applications, infinite series and sequences.

Prereq: MTH-112 with "C" or better or 4 years of high school math

MTH 122 Calculus II

NS3 4 cr

Introduction to the calculus of one variable. Includes limits and continuity, the derivative and applications, the integral and applications, infinite series and sequences.

Prereq: MTH-121

MTH 130 Beyond the 3rd Dimension

NS3 4 cr

A reading and writing course about dimensions greater than three with emphasis on Euclidean four-dimensional space. In addition to a mathematical text, readings include works from other disciplines. The goal is to gain a better understanding of four (or more) dimensions through various ways of thinking, both mathematical and otherwise.

Prereq: MTH-110 or above; Permission

MTH 180 Topics in Mathematics

NS3 2-4 cr

Selected topics of current or historic importance. Prerequisites vary with topics selected.

MTH 192 Mathematical Modeling

NS3 4 cr

Development of various mathematical models used in business, social sciences and biological sciences; uses and limitations of models in practical situations. Some models use calculus and/or the computer. Computer programming not a prerequisite.

Prereq: MTH-113 or MTH-121

MTH 202 Mathematics for the Elementary Teacher

NS3 4 cr

Overview and examination of the mathematical topics in the K-8 curriculum. Includes arithmetic of integers, decimals and fractions; numeration systems; set theory; problem solving; elementary logic, elementary concepts in probability and statistics; elementary concepts in geometry; and an introduction to computing.

Prereq: Sophomore Standing; Education Major

MTH 210 Multivariable Calculus

NS3 4 cr UL

Continuation of Math 122. Includes functions of several variables, vectors, vector-valued functions, three-dimensional analytic

geometry, partial differentiation and multiple integration.

Prereq: MTH-122

MTH 211 Differential Equations

NS3 4 cr UL

Techniques and theory of solving ordinary differential equations. Includes series solutions, numerical methods and applications.

Prereq: MTH-210

MTH 220 Math Foundations of Computer Science

NS3 4 cr UL

Topics in the mathematical foundations of computer science. Includes graph theory, logic, Boolean algebras, languages and automata, and the analysis of algorithms.

Prereq: MTH-120

MTH 221 Introduction to Cryptography

NS3 4 cr UL

Introduction to the 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.

Prereq: MTH-122

MTH 223 Mathematical Structures

NS3 4 cr UL

Study of predicate logic, proof techniques, set theory, relations, functions, cardinality and various discrete structures.

Prereq: MTH-120 and CSC-220 or MTH-122

MTH 280 Topics in Mathematic

NS3 2-4 cr UL

Introduces fundamental concepts of interest theory and how those concepts are applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, and capital budgeting. Financial instruments such as derivatives will also be introduced. While the material is useful in understanding everyday financial dealings such as loans and annuities, it is especially important to those students considering careers in actuarial science, finance, and other areas that overlap math and business.

Prereq: TAKE MTH-122 or Permission.

MTH 310 Linear Algebra

NS3 4 cr UL

Study of finite-dimensional real vector spaces; kernel, dimension, basis, linear transformations and their matrices, and eigenvalues.

Prereq: MTH-210; MTH-117 Strongly Recommended

MTH 323 Complex Analysis

NS3 4 cr UL

Introduction to the theory of functions of a single complex variable. Analytic functions, complex series, Cauchy's theorem and conformal mapping.

Prereq: MTH-210

MTH 336 Numerical Analysis

NS3 4 cr UL

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. Discussion of standard software packages and techniques for writing efficient and reliable mathematical software in Pascal and/or FORTRAN.

Prereq: MTH-122 and CSC-120

MTH 341 Probability & Statistics I

NS3 4 cr UL

Introduction to mathematical theory of probability and statistical inference. Includes data analysis and presentation, discrete and continuous probability models, random variables, mathematical expectation, generating functions, estimation, hypothesis testing, sampling distributions, regression, correlation, time series and other selected topics.

Prereq: MTH-210

MTH 342 Probability and Statistics IINS3 4 cr **UL**

Introduction to mathematical theory of probability and statistical inference. Includes data analysis and presentation, discrete and continuous probability models, random variables, mathematical expectation, generating functions, estimation, hypothesis testing, sampling distributions, regression, correlation, time series and other selected topics.

*Prereq: MTH-341***MTH 351 Elementary Number Theory**NS3 4 cr **UL**

Study of integers, including divisibility, the theory of prime numbers, congruences and solutions of equations in integers.

*Prereq: MTH-223***MTH 380 Topics in Mathematics**NS3 4 cr **UL**

Selected topics of current or historic importance. Prerequisites vary with topics selected.

MTH 390 CombinatoricsNS3 4 cr **UL**

Introduction to combinatorial theory. Topics include enumeration, recurrence, generating functions, graph theory and optimization.

*Prereq: MTH-120 or 122***MTH 391 Introduction to Graph Theory**NS3 4 cr **UL**

Introductory survey of the major concepts and applications of graphs, digraphs and networks. Application areas include transportation, traffic flow, games and puzzles.

*Prereq: MTH-122 or Permission***MTH 411 College Geometry**NS3 4 cr **UL**

Axiomatic systems, models, finite geometries, Hilbert's axioms, independence of the parallel postulate, and introduction to non-Euclidean geometries with emphasis on hyperbolic geometry.

*Prereq: MTH-223***MTH 413 Topology**NS3 4 cr **UL**

Introduction to point-set topology. Includes topological properties of Euclidean spaces, abstract spaces and metric spaces. Explores connectedness, compactness, continuity and homeomorphisms.

*Prereq: MTH-223***MTH 421 Abstract Algebra**NS3 4 cr **UL**

Introduction to the theory of algebraic structures including elementary theory of groups, rings and fields.

*Prereq: MTH-223 and 310***MTH 431 Advanced Calculus**NS3 4 cr **UL**

In-depth examination of the calculus of one variable, including topology of the real line, sequences and series of functions.

*Prereq: MTH-210 and 223***MTH 491 Mathematical Methods of Physics**NS3 4 cr **UL**

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.

*Prereq: MTH-211; MTH-310 recommended***MTH 499 Mathematics Independent Study**1-4 cr **UL**

Requires instructor permission.

MTH 500 Senior Thesis4 cr **UL**

Requires instructor permission.

Music (MUS)

Alma's Music Department, accredited by the National Association of Schools of Music, offers three degree options: Bachelor of Music in Performance, Bachelor of Music in Music Education and Bachelor of Arts with a major in Music.

Bachelor of Arts in Music

Forty credits which must include MUS-111, 111a, 112, 112a, 211, 212, 214, 443, 444, 445, 500, two credits of Ensembles and two credits of Applied Lessons. 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 by the end of the year preceding graduation. Students are strongly advised to continue their study of voice or an instrument through studio lessons and ensembles.

Bachelor of Music in Music Education

Seventy-six credits including MUS-111, 111a, 112, 112a, 116, 211, 212, 214, 215, 237, 337, 344, 431, 443, 444, 445; seven credits of Ensembles, one of which must be MUS-155 or 159; and 14 credits of Applied Lessons on one instrument. Students with a *vocal emphasis* must complete MUS-132, 138, and one term of an instrumental ensemble or instrumental pedagogy course. Students with an *instrumental emphasis* must complete MUS-134, 135, 136, 137 and either MUS-138 or one term of a vocal ensemble. All candidates must complete MUS 116 (piano proficiency) by the end of the fall term of the junior year.

Education courses required: EDC-130/103, 230/203, 240, 303, 311, 312, 346, 370, 373, 430, and 490/491.

Bachelor of Music in Performance

Eighty-eight credits including MUS-111, 111a, 112, 112a, 116, 211, 212, 214, 215, 237, 443, 444, 445, 500; eight credits of Ensembles, one of which must be MUS 155 or 159; 28 credits of Applied Lessons on one instrument or voice and 9 credits of elective coursework subject to Department approval. All students must also complete one pedagogy course (from MUS-131 through 138 courses) in the area of their major instrument. MUS 500 must be a recital.

Minor Requirements

Twenty-four credits including MUS-111, 111a, 112, 112a, and 120; two credits from MUS-140, 211, 214, 215, 237, 443, 444 or 445; and six credits of applied lessons on one instrument or voice.

Performance Courses

Applies to: MUS-191/*391, 192/*392, 193/*393, 194/*394, 195/*395, 196/*396, 197/*397, and 198/*398. (Offered every term)

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) represents upper level performance skill and experience and requires Departmental approval. Candidates for the Bachelor of Music in Performance are advised to enroll at the 300-level by the second semester of the first year. Only 300-level students may elect four hours of credit. The Department will consider all candidates for the Bachelor of Music in Performance for 300-level suitability at the end of the first term of study.

There is a private lesson instruction fee of \$165 per term for all levels (191-198, 391-398).

Ensembles

Applies to: MUS 150-159 and 351. Ensembles are open to all students who audition and receive permission from the instructor prior to registration. No more than eight credits of participation in all ensembles combined may be applied toward degree requirements. All ensembles are offered every year.

Four credits from MUS, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

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.
Prereq: MUS-106 or Audition

MUS 111 Musicianship I
 AH 4 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 111A Aural Skills I
 AH 2 cr
 Develops aural skills through a range of melodic, harmonic and rhythmic exercises. Introduces solfege syllables. Should be taken concurrently with MUS-111. (Offered every year)

MUS 112 Musicianship II
 AH 4 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)
Prereq: MUS-111

MUS 112A Aural Skills II
 AH 2 cr
 Continuation of Aural Skills I. Should be taken concurrently with MUS 112. (Offered every year)
Prereq: MUS-111A

MUS 114 Piano Proficiency I
 AH 2 cr
 Required of all music majors (Performance and Music Education). 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.
Prereq: 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)
Prereq: MUS-115 or Audition; Music Major

MUS 117 Class Voice I
 AH 2 cr
 Basic principles of singing for the student with little or no previous training. (Offered every year)

MUS 118 Class Voice II
 AH 2 cr
 Basic principles of singing for the student with little or no previous training. (Offered every year) Requires instructor permission.

MUS 119 Class Guitar
 AH 2 cr
 Fundamentals for the beginning guitar player.

MUS 120 Survey of Music Literature
 AH 4 cr
 Introductory survey of major musical works representative of the styles and genres of the important periods of musical development. Extensive listening. (Offered every other year. Offered Fall 2015.)

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. (Offered/Considered upon request).
Prereq: 8 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 every other year. Offered Fall 2015.)


MUS 134 Woodwind Pedagogy
 AH 1 cr
 Principles of tone production, fingering and embouchure for flute, oboe, clarinet and bassoon (or saxophone). Specialization on the instrument of the student's choice. (Offered every other year. Offered Fall 2015.)

MUS 135 Brass Pedagogy
 AH 1 cr
 Principles of tone production, fingering and embouchure for trumpet, French horn, trombone and tuba. Specialization on the instrument of the student's choice. (Offered every other year. Offered Fall 2016.)

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. (Offered every other year. Offered Winter 2016.)

MUS 137 Percussion Pedagogy
 AH 1 cr
 Principles of playing percussion instruments with emphasis on snare drum, mallet keyboard instruments and timpani. (Offered every other year. Offered Winter 2017.)

MUS 138 Choral Pedagogy
 AH 2 cr
 Principles of voice production, sight reading and singing. Emphasis on the selection of choral literature particularly with regard to developing voice. (Offered every other year. Offered Winter 2016.)
Prereq: 2 terms of MUS-151 and/or 157 and/or 158

MUS 140 Non-Western Music
 AH 4 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 150 Accompanying
 AH 1 cr

MUS 151 College Chorale
 AH 1 cr

MUS 152 Alma Symphony Orchestra AH	1 cr	MUS 191C Violoncello AH Private lessons. Course fee. <i>Prereq: MUS-191C previously or Permission</i>	2 cr
MUS 153 Kiltie Band AH	1 cr	MUS 191D Double Bass AH Private lessons. Course fee. <i>Prereq: MUS-191D previously or Permission</i>	2 cr
MUS 154 Scottish Arts AH	1 cr	MUS 191E Jazz Guitar AH Private lessons. Course fee. <i>Prereq: MUS-191E previously or Permission</i>	2 cr
MUS 155 Percussion Ensemble AH	1 cr	MUS 191K Bass Guitar AH Private lessons. Course fee. <i>Prereq: MUS-191K previously or Permission</i>	2 cr
MUS 156 Jazz Ensemble AH	1 cr	MUS 191Y Classical Guitar AH Private lessons. Course fee. <i>Prereq: MUS-191Y previously or Permission</i>	2 cr
MUS 157 Women's Glee Club AH	1 cr	MUS 192E Flute AH Private lessons. Course fee. <i>Prereq: MUS-192E previously or Permission</i>	2 cr
MUS 158 Handbell Choir AH	1 cr	MUS 192F Oboe AH Private lessons. Course fee. <i>Prereq: MUS-192F previously or Permission</i>	2 cr
MUS 159 Chamber Music AH	1 cr	MUS 192G Clarinet AH Private lessons. Course fee. <i>Prereq: MUS-192G previously or Permission</i>	2 cr
MUS 159A Chamber Music Strings AH	1 cr	MUS 192H Bassoon AH Private lessons. Course fee. <i>Prereq: MUS-192H previously or Permission</i>	2 cr
MUS 159E Chamber Music Flute AH	1 cr	MUS 192I Saxophone AH Private lessons. Course fee. <i>Prereq: MUS-192I previously or Permission</i>	2 cr
MUS 159G Chamber Music Clarinet AH	1 cr	MUS 192P Bagpipes AH Private lessons. Course fee. <i>Prereq: MUS-192P previously or Permission</i>	2 cr
MUS 159I Chamber Music Saxophone AH	1 cr	MUS 193J Trumpet AH Private lessons. Course fee. <i>Prereq: MUS-193J previously or Permission</i>	2 cr
MUS 159J Chamber Music High Brass AH	1 cr	MUS 193K Horn AH Private lessons. Course fee. <i>Prereq: MUS-193K previously or Permission</i>	2 cr
MUS 159K Chamber Music Horn AH	1 cr	MUS 193L Trombone AH Private lessons. Course fee. <i>Prereq: MUS-193L previously or Permission</i>	2 cr
MUS 159L Chamber Music Trombone AH	1 cr	MUS 193M Euphonium AH Private lessons. Course fee. <i>Prereq: MUS-193M previously or Permission</i>	2 cr
MUS 159N Chamber Music Low Brass AH	1 cr		
MUS 180 Topics in Music AH Selected topics in music. May be taken more than once if topics differ. Only two registrations count toward Music Major.	1-4 cr		
MUS 191A Violin AH Private lessons. Course fee. <i>Prereq: MUS-191A previously or Permission</i>	2 cr		
MUS 191B Viola AH Private lessons. Course fee. <i>Prereq: MUS-191B previously or Permission</i>	2 cr		

MUS 193N Tuba AH Private lessons. Course fee. <i>Prereq: MUS-193N previously or Permission</i>	2 cr	use of Finale, an industry standard application for music notation. (Offered every year) <i>Prereq: Music Major or Permission</i>
MUS 194 Percussion AH Private lessons. Course fee. <i>Prereq: MUS-194 previously or Permission</i>	2 cr	MUS 215 Audio Recording Workshop AH 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. (Offered every year)
MUS 195 Voice AH Private lessons. Course fee. <i>Prereq: MUS-195 previously or Permission</i>	2 cr	MUS 225 Orchestration & Arranging AH 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. <i>Prereq: MUS-112</i>
MUS 196 Piano AH Private lessons. Course fee. <i>Prereq: MUS-196 previously or Permission</i>	2 cr	MUS 237 Conducting & Score Reading AH Art of conducting, rehearsal techniques and procedures, score reading, problems of interpretation, organization and activities of choral and instrumental groups. (Offered every other year. Offered Fall 2016.) <i>Prereq: MUS-112</i>
MUS 197A Organ AH Private lessons. Course fee. <i>Prereq: MUS-197A previously or Permission</i>	2 cr	MUS 250 Musical Theatre Techniques AH The staging of and participation in the performance of a work for the musical theatre - including acting, singing and movement - which is presented at the end of the term. Course may be repeated once for credit.
MUS 197B Harpsichord Private lessons. Course fee. <i>Prereq: MUS-197B previously or Permission</i>	2 cr	MUS 284 Music in Film AH This course examines the wide range of musical styles and aesthetic approaches used in narrative film. 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. <i>Prereq: ENG-101</i>
MUS 198 Composition AH 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. <i>Prereq: MUS-111 and Permission</i>	2 cr	MUS 337 Advanced Conducting AH 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 every other year. Offered Winter 2017.)
MUS 201 Music and Sound for Digital Media AH Examines theoretical and technical elements of digital sound and music, including sound design and synthesis, sound editing, Musical Instrument Digital Interface (MIDI) sequencing, studio recording techniques, digital signal processing, computer-based music publishing, sound effect and narration tracks for video and the role of sound in interactive development. Emphasis on sound in digital media projects with layers of media data in formats such as the World Wide Web, Power Point presentations, Flash, QuickTime CD-ROM and DVD. (Offered every year) (Cross-listed with NMS-204)	4 cr UL	MUS 340 Piano and Chamber Music Literature AH Students attend the Gilmore International Keyboard Festival. A survey of keyboard and chamber music literature ranging from the classical to jazz repertoire. Analysis and study of works appropriate to class participants as well as critical listening, and theoretical-historical study. (Offered every other year. Offered Spring 2016.)
MUS 211 Comprehensive Musicianship III AH 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. (Offered every year) <i>Prereq: MUS-112</i>	4 cr UL	MUS 344 Elementary School Music AH 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 every other year. Offered Fall 2015.) <i>Prereq: Music Education Major; Permission</i>
MUS 212 Comprehensive Musicianship IV AH 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. (Offered every year) <i>Prereq: MUS-211</i>	4 cr UL	MUS 350 Opera Workshop AH Basic techniques of operatic performance: role preparation, body movement related to music, acting, and techniques. May be repeated for up to a total of 4 credits.
MUS 214 MIDI Composition & Arranging AH 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	2 cr UL	

MUS 351 Alma College Choir
AH 1 cr **UL**
Final registration subject to audition

MUS 380 Topics in Music
AH 2-4 cr **UL**
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 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391A previously or Permission

MUS 391B Viola
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391B previously or Permission

MUS 391C Violoncello
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391C previously or Permission

MUS 391D Double Bass
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391D previously or Permission

MUS 391E Jazz Guitar
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391E previously or Permission

MUS 391K Electric Bass Guitar
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391K previously or Permission

MUS 391Y Classical Guitar
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-391Y previously or Permission

MUS 392E Flute
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-392E previously or Permission

MUS 392F Oboe
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-392F previously or Permission

MUS 392G Clarinet
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-392G previously or Permission

MUS 392H Bassoon
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-392H previously or Permission

MUS 392I Saxophone
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-192I previously or Permission

MUS 392P Bagpipes
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-392P previously or Permission

MUS 393J Trumpet
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-393J previously or Permission

MUS 393K Horn
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-393K previously or Permission

MUS 393L Trombone
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-393L previously or Permission

MUS 393M Euphonium
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-393M previously or Permission.

MUS 393N Tuba
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-393N previously or Permission

MUS 394 Percussion
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-394 previously or Permission

MUS 395 Voice
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-395 previously or Permission

MUS 396 Piano
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-396 previously or Permission

MUS 397A Organ
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-397A previously or Permission

MUS 397B Harpsichord
AH 2-4 cr **UL**
Private lessons. Intended for upper-level performance skill. Final registration subject to departmental approval. Course fee.
Prereq: MUS-397B previously or Permission

MUS 398 Advanced Composition
AH 2-4 cr **UL**
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.
Prereq: MUS-111 and Permission

MUS 431 General Methods of Music Education 4 cr **UL**
AH
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 every other year. Offered Fall 2016.)
Prereq: Permission

MUS 443 Music History I 4 cr **UL**
AH
Antiquity, the Middle Ages and the Renaissance. (Offered every other year. Offered Spring 2017.)
Prereq: MUS-112

MUS 444 Music History II 4 cr **UL**
AH
Baroque and classical music. (Offered every year)
Prereq: MUS-112

MUS 445 Music History III 4 cr **UL**
AH
Music of the 19th and 20th centuries, including relationships between the popular, folk and art music traditions of the United States and other non-Western European cultures. (Offered every year)
Prereq: MUS-112

MUS 499 Music Independent Study 1-4 cr **UL**
Requires instructor permission.

MUS 500 Graduation Recital Or Senior Thesis 2 cr **UL**
Satisfies the Department's comprehensive evaluation requirement. Requires instructor permission.

New Media Studies (NMS)

Major Requirements

Fifty-two credits which must include:

1. NMS-101, 120, 201, 203 or 204, 220, 385 (P/F only), and 450.
2. Twelve credits (8 of which must be upper level) from NMS-114, 210, 240, 250, 260, 282, 300, 320, 381.
3. Twelve credits from ART-224, 230, 232, 390; COM-327; CSC-204, 335; ENG-202, 270, 370; MUS-215; PHL-224; SOA-328 or other course pre-approved by the Department. Cognates may count toward second majors and minors.

Departmental Honors

Completion of all NMS major requirements, 3.5 GPA in the major, and completion of a senior thesis project of honors caliber (NMS-500).

Minor Requirements

Twenty-eight credits that must include:

1. NMS-101, 201, 450, and one of 120, 203, 204 or 220.
2. Eight credits (4 of which must be upper level) from NMS-114, 210, 240, 250, 260, 282, 300, 320, 381.
3. Four credits from ART-224, 230, 232, 390; COM 327; CSC-204, 335; ENG-202, 270, 370; MUS-215; PHL-224; SOA-328 or other course pre-approved by the Department.

NMS 101 Introduction to Digital Media 4 cr
AH
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. (formerly NMS 210)

NMS 114 Introduction to Web Development 4 cr
AH
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. Laboratory.

NMS 120 Principles of Visual Design 4 cr
AH
Investigation of foundational elements and principles of visual design, as components of visual communication. Two dimensional design and time-based media will be explored traditionally and digitally, using programs such as Illustrator, Photoshop Lightroom, iMovie, and others. Topics include color theory, composition, narrative and non-narrative storytelling, among others. Course fee.

NMS 180 Topics in New Media Studies 1-4 cr
AH
Selected topics in new media innovations, issues and effects. May be taken more than once for credit.
Prereq: 4 credits in NMS or Permission

NMS 201 Media Systems & Influence 4 cr
AH
Introductory study of the major media industries and effects. Emphasis on analyzing the way media technologies affect information flow and social networks and the influence of media on human perception, behavior and identity.

NMS 203 Camera Media 4 cr
AH
This course seeks a fluency in the camera as an instrument for communication, industry, and inquiry in the twenty-first century. Students acquire skills in the critique and authorship of camera media through perspectives from the arts, humanities, and sciences. Theories are wed to hands-on practices with photography, time-based narratives, virtual environments, video chat, citizen journalism, microscopy, telescoping, and wearable media. Course fee.

NMS 204 Sound Design 4 cr
AH
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. (Formerly MUS 201)

NMS 210 Motion Graphics & Animation 4 cr
AH
Introduction to 2D and 3D visual effects, animation and compositing. Critical study and theory of motion and animation principles; concepts of key framing, applying behaviors, tweening animations, symbols, generators and particle emission, chroma keying and roto-scoping.

NMS 215 Audio Recording Studio 2 cr **UL**
AH
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. (Offered every year)

NMS 220 Intro to Media Programming & Computation 4 cr **UL**
NS3
Write programs to manipulate images, sounds and movies, developing knowledge and skills in problem solving, data representation, data manipulation, and programming principles including recursion and object-oriented design. Introduction to basic ideas in hardware, software and computing.

NMS 232 Digital Imaging 4 cr **UL**

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.

NMS 240 Digital Film Production 4 cr **UL**

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 instructor permission to register for this course. Course fee.

NMS 250 Media, Power and Ownership 4 cr **UL**

Introduction to the business practices and regulations that shape the American media industry. Emphasis is placed on the roles of audience characteristics and media technology in shaping the content of media, and the role of the First Amendment as the basis for media regulation.

NMS 260 Visual Communication 4 cr **UL**

Focus on understanding images in culture from a psychological, photojournalistic and communication perspective. Work from a range of disciplines, including anthropology, communication, media and cultural studies, sociology, psychology and design.

NMS 280 Topics in New Media Studies 2-4 cr **UL**

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 at a cost up to \$100.

NMS 282 Network Analysis 4 cr **UL**

Examination of tools and techniques used in analyzing social relations, focusing on substantive and theoretical origins and applications of these techniques. Emphasizes basic network concepts and common approaches to network analysis. Introduces advanced methodologies for analyzing social networks.

NMS 299 NMS Independent Study 1-4 cr **UL**

Requires instructor permission.

NMS 300 Media Theory and Culture 4 cr **UL**

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. (formerly COM 303)

NMS 320 Computer Game Design & Interactive Narr 4 cr **UL**

Using coursework and team projects, students explore the process by which games go from conception to formal design to implementation. Explore all facets of the game development process, from brainstorming techniques, to art and sound design, to testing and marketing. Laboratory.

Prereq: NMS-120 and 220 or CSC-120

NMS 380 Topics in New Media Studies 2-4 cr **UL**

Selected topics in new media innovations, issues, and and effects.

Prereq: NMS-101 or Permission

NMS 381 Documentary Video 2 cr **UL**

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 **UL**

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.

Prereq: NMS-204

NMS 385 New Media Studies Internship 1-8 cr **UL**

NMS 399 NMS Independent Study 1-4 cr **UL**

Requires instructor permission.

NMS 450 Sem in Media Apps & Implications 4 cr **UL**

Explores proposed and possible digital media forms, functions, contents and systems. Investigates applications of media tools and how new developments in media may both represent and transgress cultural and professional assumptions about the nature of media and mediated communication. Requires completion of a senior studio or research project. Requires senior standing.

NMS 499 NMS Independent Study 1-4 cr **UL**

Requires instructor permission.

NMS 500 Studies Senior Thesis 2-4 cr **UL**

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.

Nursing (NUR)

Bachelor of Science in Nursing

1. Professional Sequence (32 credits): NUR-210, 211, 310, 311, 360; IPH-310, 430; MTH-116; PSY-121, 231.
2. Nursing Content/Practice (26 credits): NUR-350, 351, 352, 353, 354, 355, 500.
3. Natural Science Core (36 credits): BIO-121, 308; CHM-115; IPH-220, 225, 226, 328, 340, 344.
4. Integrative Core (25 credits): SOC-101; PHL-229; POL 141; CRL/PAF; NUR-101, 102, 201, 202, 301, 302, 401, 402.

Candidates for the Bachelor of Science in Nursing must earn a total of 136 credits, and must satisfy all general education and other Alma College graduation requirements.

NUR 101 Integrative Seminar 1 1 cr

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. The concepts of patient-centered care, communication, collaboration & interdisciplinarity, critical thinking and clinical decision making, nursing therapeutics (informatics), clinical prevention and population health, nursing management of disease processes, professional leadership (health, policy, finance & regulatory environments, quality and patient safety), ethical practice, evidenced based practice, and global cultural scholarship are discussed and developed in this course. Integrates knowledge, skills and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical-decision-making process. Additionally an introduction to servant leadership with service to the community is introduced in

this course.

NUR 102 Integrative Seminar 2

1 cr

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. This course further develops the concepts discussed and learned in NUR 101. These concepts are: patient-centered care, communication, collaboration & interdisciplinarity, critical thinking and clinical decision making, nursing therapeutics (informatics), clinical prevention and population health, nursing management of disease processes, professional leadership (health, policy, finance & regulatory environments, quality and patient safety), ethical practice, evidenced based practice, and global cultural scholarship. This course continues to integrate the knowledge; skills; and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical-decision-making process. Servant leadership is further developed in this course.

Prereq: NUR-101

NUR 201 Integrative Seminar 3

1 cr

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. This course further develops the concepts discussed and learned in NUR 101 and 102. These concepts are: patient-centered care, communication, collaboration & interdisciplinarity, critical thinking and clinical decision making, nursing therapeutics (informatics), clinical prevention and population health, nursing management of disease processes, professional leadership (health, policy, finance & regulatory environments, quality and patient safety), ethical practice, evidenced based practice, and global cultural scholarship. This course continues to integrate the knowledge; skills; and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical-decision-making process. The concept of servant leadership with is further developed in this course.

Prereq: NUR-102

NUR 202 Integrative Seminar 4

1 cr

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. This course further develops the concepts discussed and learned in NUR 101, NUR 102 and NUR 201. These concepts are: patient-centered care, communication, collaboration & interdisciplinarity, critical thinking and clinical decision making, nursing therapeutics (informatics), clinical prevention and population health, nursing management of disease processes, professional leadership (health, policy, finance & regulatory environments, quality and patient safety), ethical practice, evidenced based practice, and global cultural scholarship. This course continues to integrate the knowledge; skills; and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical-decision-making process. Servant leadership is further developed in this course.

Prereq: NUR-201

NUR 210 Clinical Skills, Medical Math & EMR

SP

2 cr

Provides the theoretical base for nursing therapeutics (clinical skills, medical math and EMR) to provide safe-effective patient centered care. Patient centered caring practices are expanded to include issues of privacy, confidentiality, and responses to diversity. Quality & safety standards/competencies for nursing therapeutics are introduced and practiced within a laboratory setting.

Prereq: NUR-202

NUR 211 Physical Assessment

SP

2 cr

Provides the theoretical base for a comprehensive health history and physical assessment utilizing the nursing process for a well adult patient. Incorporates spiritual, socio-cultural, psychological and physical dimensions of the patient for the health history and physical assessment. Patient centered caring practices are expanded to include issues of privacy, confidentiality, and

responses to diversity. Quality & safety standards/competencies for the physical assessment are introduced and practiced within a laboratory setting. Student must also enroll in NUR 210.

Prereq: NUR-202

NUR 301 Integrative Seminar 5

1 cr **UL**

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. This course further develops the concepts discussed and learned in NUR 101, NUR 102, NUR 201 and NUR 202. These concepts are: patient-centered care, communication, collaboration & interdisciplinarity, critical thinking and clinical decision making, nursing therapeutics (informatics), clinical prevention and population health, nursing management of disease processes, professional leadership (health, policy, finance & regulatory environments, quality and patient safety), ethical practice, evidenced based practice, and global cultural scholarship. This course continues to integrate the knowledge; skills; and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical decision-making process. The servant leadership goal is allocated in this course.

Prereq: NUR-211

NUR 302 Integrative Seminar 6

1 cr **UL**

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. The concepts of patient-centered care, communication, collaboration & interdisciplinarity, informatics & application of patient care technology, clinical prevention and population health ethical practice, evidenced based practice, health, policy, finance & regulatory environments, organizational & system leadership for quality care and patient safety are discussed and developed in this course. Integrates knowledge, skills and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical-decision-making process. Additionally an introduction to servant leadership with service to the community is introduced in this course.

Prereq: NUR-301

NUR 303 Integrative Seminar

1 cr **UL**

Provides the theoretical base to further prepare nurses to become competent to care for the health of people. The concepts of patient-centered care, communication, collaboration & interdisciplinarity, informatics & application of patient care technology, clinical prevention and population health ethical practice, evidenced based practice, health, policy, finance & regulatory environments, organizational & system leadership for quality care and patient safety are discussed and developed in this course. Integrates knowledge, skills and attitudes learned from the con-current semester courses with that of the nursing process to provide a foundation for the clinical-decision-making process. Additionally an introduction to servant leadership with service to the community is introduced in this course.

NUR 310 Fundamentals Nursing Practice

4 cr **UL**

Provides the theoretical base for scientific inquiry/nursing process (assessment, diagnosis, planning, interventions and evaluation) to provide patient-centered care. Quality & 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.

Prereq: NUR-211

NUR 311 Nursing Theory and Professional Practice

2 cr **UL**

Provides a theoretical base for the concepts of the meta-paradigm of nursing theory (patient/person, nurse, health, and environment), the core values of Alma College, the BSN essentials and the QSEN initiatives to guide the development of a professional

nursing practice. Development of a philosophy of a professional nursing role is approached from a perspective of the Alma College tradition, social justice, reflective thinking and a values-centered professional education.

Prereq: NUR-211

NUR 350 Medical Surgical Nursing With Practicum 4 cr **UL**

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 & safety standards/competencies of nursing practice are employed for the adult medical-surgical population within the framework of health care delivery systems.

NUR 351 Mental Health Nursing With Practicum 4 cr **UL**

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 & safety standards/competencies of nursing practice for the adult mental health population are explored and practiced within the framework of health care delivery systems.

NUR 353 Pediatric Nursing 3 cr **UL**

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 & safety competencies of nursing practice for the pediatric population are explored and practiced within the framework of health care delivery systems.

Prereq: NUR-211

NUR 353L Pediatric Nursing - Lab 0 cr **UL**

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.

NUR 355 Maternal Health Nursing 3 cr **UL**

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 & safety competencies of nursing practice for the maternal health population are explored within the framework of health care delivery systems.

Prereq: NUR-211

NUR 355L Maternal Health Nursing - Lab 0 cr **UL**

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

NUR 360 Community/Global Nursing Experience 4 cr **UL**

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.

NUR 402 Capstone Seminar 2 cr **UL**

Provides a theoretical base for implementing learned nursing interventions through theory into professional practice. Theories derived from multiple disciplinary perspectives (arts and sciences) and research methods are employed to assist populations at risk. Social justice, women's issues, abuse and violence, substance abuse, social and health policies, disparities, access problems, and integrity of basic units of society are explored iwth the Alma Core Values embedded in the process of the project.

NUR 452 Medical Surgical Nursing II W Practicum 4 cr **UL**

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.

NUR 454 Community Health Nursing W Practicum 4 cr **UL**

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.

NUR 500 Clinical Immersion Practicum 4 cr **UL**

Provides for the transition of the student nurse to a professional baccalaureate nurse within an interdisciplinary, population-based model of care. The 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.

Philosophy (PHL)

Major Requirements

1. Thirty-six credits, including PHL-102, 103, 111 or 112, 126 and 500. Sixteen credits at the upper level; typically some are independent studies developed in consultation with the Department.
2. Successful completion of the thesis and oral examination administered by the Department.

Minor Requirements

Twenty-four credits, including PHL-102, 103, 111 or 112, and 126. Others selected in consultation with the Department.

Four credits from PHL, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

PHL 102 Issues in Philosophy 4 cr **AH**

Exploration of issues in and development of individual positions in respect to basic philosophical questions.

PHL 103 Critical Thinking 4 cr **AH**

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 Western Philosophy I
AH 4 cr

Survey of major ideas which have helped shape the Western tradition and the thinking of contemporary persons. The timeframe covered includes the beginnings in Greece to Renaissance, including meeting of Greek and Christian worldviews.

PHL 112 West Philosophy II
AH 4 cr

Survey of major ideas which have helped shape the Western tradition and the thinking of contemporary persons. The timeframe includes the Renaissance to 20th century.

PHL 126 Introduction to Values
AH 4 cr

Exploration of moral values, nature of moral judgments, and bases for moral decisions. Practice in decision making. Study of such controversial contemporary issues as capital punishment, abortion, privacy, death with dignity, racism and sexism. Focus on person as individual and member of society.

PHL 131 Introduction to Political Theory
AH 4 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 2-6 cr

Selected topics in philosophy. Subject, credits and applicability to distributive requirements and to Major or Minor to be announced in advance.

PHL 202 Feminist Philosophy
AH 4 cr

Examination of recent feminist studies in philosophy and religion. Focus on method, style, approach and arguments of the feminist critique.

PHL 215 Philosophy of Religion
AH 4 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. (Cross-listed as REL-215.)

PHL 216 Themes in Existentialist Literature
AH 4 cr

Examination, evaluation and discussion of selected subjects - the individual, freedom, responsibility, anxiety, hope, death, meaning of life - as treated in various essays, short stories and dramas. Focus on analysis and interpretation of texts. (Cross-listed as REL-216.)

PHL 217 Asian Philosophy and Religion
AH 4 cr

Exploration of the history, thought and contemporary roles of the major religious and philosophical traditions of Asia, including Hinduism, Buddhism, Confucianism and Taoism. (Cross-listed as REL-217.)

PHL 224 Aesthetics
AH 4 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 4 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 4 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 4 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 4 cr

Exploration of 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 4 cr

Examination of the relationship between religion and science through both historical and contemporary issues. (Cross-listed as REL-230.)

PHL 232 Ancient Political Thought
AH 4 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? (Cross-listed as POL-232.)

PHL 234 Modern Political Thought
AH 4 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. (Cross-listed as POL-234.)

PHL 235 Ethics and Education
AH 4 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 240 Philosophy of Love and Sex
AH 4 cr

Examination of conceptual and moral issues related to love and sex. Conceptual issues include the nature of love and of sexual desire. Moral issues include marital fidelity, exclusivity in romantic relationships, sex without love, homosexuality, romantic relationships that involve power differentials, sexual harassment, date rape, prostitution and pornography.

PHL 242 Philosophy of Sport
AH 4 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 2-4 cr UL
Selected topics in philosophy in such areas as historical studies, epistemology, metaphysics and values. May be taken more than once if different topic.

PHL 299 Philosophy Independent Study 4 cr
Planned program of individual study of a particular subject in philosophy, developed with the supervising professor.
Prereq: Permission

PHL 303 Symbolic Logic
NS3 4 cr UL
In-depth examination of symbolic logic, extending the propositional logic developed in PHL 103 to include predicate logic and logic of identity. Study of 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 4 cr UL
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 326 Virtue Ethics
AH 4 cr UL
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 kind of person should I try to become? Consideration of such virtues and vices as honesty, friendship, loyalty, selfishness, gossip and greed, ending on the ultimate ethical question: What makes my life worthwhile or meaningful?
Prereq: Any ethics course from PHL-126, 202, 225, 227, 228, 229, 235, 240 or 242 or Permission

PHL 347 Philosophy of Mind
AH 4 cr UL
Exploration of rival views on relation between mind and body, beginning with dualism, the view which is most hospitable to belief in life after death. Emphasis on various materialist theories which explain human actions without any reference to non-physical entities. Exploration of implications of theories of mind for issues such as immortality and human freedom.
Prereq: Any Philosophy course or COG-120 or Permission

PHL 380 Seminar
AH 2-4 cr UL
Selected topics in philosophy which arise in various fields. Generally interdisciplinary, team-taught. Reading, discussion, papers and critiques. Subjects and credits to be announced.
Prereq: Permission

PHL 399 Philosophy Independent Study 1-4 cr UL
Planned program of individual study of a particular subject in philosophy, developed with the supervising professor. Major can include more than one enrollment in independent study.
Prereq: Permission

PHL 499 Philosophy Independent Study 4 cr UL
Planned program of individual study of a particular subject in philosophy, developed with the supervising professor.
Prereq: Permission

PHL 500 Senior Thesis 1-4 cr UL
Individual research culminating in preparation of a major paper and departmental oral examination.

Prereq: Permission

Physical Science (PSC)

PSC 101 General Physical Science 4 cr
NS2
An introduction to the basic concepts in physical science in the areas of physics, chemistry, earth science and astronomy. Meets standards for elementary certification. Laboratory.

PSC 101L Physical Science Lab 0 cr

PSC 180 Basic Physical Science 4 cr
An introductory course in physical science.

PSC 380 Physical Science Concepts 4 cr UL
A standards-based class and laboratory experience in physics and astronomy that supports K-8 pre-service teachers in understanding the physical sciences and expanding their repertoire of teaching and assessment techniques suitable for science subject areas.

PSC 399 Physical Science Independent Study 1-4 cr UL

Physics (PHY)

Major or Teaching Major Requirements

1. Thirty-six credits, including PHY-121, 122, 220, 221, 312, 321, 323, 421; and either 333, 380, 499, 500 or AST-225.
2. Twenty cognate credits, including MTH-121, 122, 210, 211 and CSC-120.

Minor or Teaching Minor Requirements

Twenty-four credits, including PHY-121, 122, 220, 221 and eight credits from Physics and Astronomy courses numbered 200 or above. Twenty cognate credits, including MTH-121, 122, 210, 211 and CSC-120.

Four credits from PHY, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Physical Sciences.

PHY 101 Making of the Atomic Bomb 4 cr
NS2
Review of the scientific, engineering, military and social factors involved in the development of the atomic bomb from 1900-1945. Does not count toward Physics major. MTH-101 recommended.

PHY 112 General Physics I 4 cr
NS2
First half of an introductory survey of physics with emphasis on problem-solving. Uses algebra and trigonometry but not calculus. Appropriate for students who plan no further study in physics. Topics include motion, forces, rotation, conservation laws and thermal physics. Laboratory. Course fee.
Prereq: MTH-112, 113, or 121 or Permission

PHY 113 General Physics II 4 cr
NS2
Second half of the introductory survey of physics started with PHY 112. Uses algebra and trigonometry but not calculus. Topics include vibrations and waves, sound, electricity and magnetism, optics and modern topics. Laboratory. Course fee.
Prereq: PHY-112

PHY 121 Introduction to Physics I 4 cr
NS2
First half of introductory survey of physics with emphasis on problem-solving. Uses calculus. Appropriate for physics, chemistry

or mathematics majors, pre-engineering students, and pre-medical students who have had calculus. Includes mechanics, dynamics and rotation. Laboratory. Course fee.

Prereq: MTH-113 or MTH-121 previously or concurrently

PHY 122 Introduction to Physics II

NS2 4 cr UL

Second half of the introductory survey of physics started with PHY 121. Uses calculus. Includes oscillations, gravity, waves, sounds, fluids and thermal physics. Completion of MTH-122 or concurrent enrollment in MTH-122 is strongly recommended. Laboratory. Course fee.

Prereq: PHY-121

PHY 140 Machine Shop

NS2 2 cr

Introduction to machine shop tools and techniques. Course fee.

Prereq: Permission

PHY 212 Mechanics I: Statics

NS2 4 cr UL

Study of static equilibrium of rigid bodies. Includes translational and rotational equilibrium; stresses, strains and deformations; strengths of materials.

Prereq: PHY-121 and CSC-120; MTH-210 concurrently

PHY 220 Introduction to Electromagnetism

NS2 4 cr UL

Continuation of survey of physics begun in PHY 121-122. Study of fundamentals of electricity and magnetism: charge, current, fields, potentials, resistance, capacitance, and an introduction to electromagnetic waves. Laboratory. Course fee.

Prereq: PHY-122; MTH-210 or Permission

PHY 221 Modern Physics

NS2 4 cr UL

Survey of fundamentals of modern physics; special relativity, atomic physics, nuclear physics, and introductory quantum wave mechanics. Laboratory. Course fee.

Prereq: PHY-122; MTH-210 or Permission

PHY 225 Astrophysics

NS2 4 cr UL

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. Requires PHY-221 concurrently.

PHY 299 Physics Independent Study

1-8 cr UL

Planned program of study. Topic selected by instructor and student.

Prereq: Permission

PHY 312 Dynamics

NS2 4 cr UL

Study of motion. Includes particle dynamics, central force motion, rigid body motion, Lagrange's and Hamilton's equations of motion.

Prereq: PHY-122 and MTH-210; PHY-221 strongly recommended

PHY 321 Advanced Electromagnetism

NS2 4 cr UL

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.

Prereq: PHY-220 and MTH-210; PHY-221 strongly recommended

PHY 323 Thermal/Statistical Physics

NS2 4 cr UL

Study of thermodynamics as seen and derived from a quantum statistics perspective. Includes first, second and third laws of thermodynamics; kinetic theory of gasses; Maxwell-Boltzman statistics; thermal equilibrium; and fluctuations and irreversibility.

Prereq: PHY-221 and MTH-210; PHY-221 strongly recommended

PHY 333 Optics

NS2 4 cr UL

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.

Prereq: PHY-122; PHY-220 recommended

PHY 380 Topics in Physics

NS2 4 cr UL

Study of topic of current or historical importance chosen by instructor. Prerequisites vary with selections. May require instructor permission. Students may need to buy materials for their projects at a cost up to \$100.

PHY 399 Physics Independent Study

1-4 cr UL

Planned program of study. Topic selected by instructor and student.

Prereq: Permission

PHY 421 Quantum Mechanics

NS2 4 cr UL

Study of wave and matrix mechanics, the harmonic oscillator, the hydrogen atom and angular momentum and spin.

Prereq: PHY-221 and MTH-310

PHY 480 Topics in Physics

4 cr UL

Study of topic of current or historical importance chosen by instructor. Prerequisites vary with selections.

Prereq: May require Permission

PHY 499 Physics Independent Study

1-4 cr UL

Planned program of study. Topic selected by instructor and student. Requires instructor permission.

PHY 500 Senior Thesis

NS2 2-4 cr UL

Planned program of research performed on campus or as part of research group at major university or national laboratory. Course fee.

Prereq: Permission

Political Science (POL)

Major Requirements

1. Common core - POL-201, 401
2. Disciplinary breadth - one course from each of the following groups (16 credits total):
 - American Politics: POL-100, 101, 141, 241, 242, 243, 245, 335, 341, 345;
 - Comparative Politics: POL-100, 111, 115, 211, 212, 215, 217;
 - International Relations: POL-100, 121, 127, 221, 225, 226/227, 325, 326, 327, 328/329;
 - Political Theory: POL-100, 131, 231, 232, 233, 234;
3. POL 100 may only be used to satisfy **one** group. With instructor approval, the following courses may be used to satisfy any group: POL-381, 382, 385, 386, 387, 499, 500. Only 8 credits of POL-226/227 and 328/329 may count towards the major.
4. Sub-disciplinary expertise - Students must complete at least 8 credits of additional upper-level coursework, both taken from **one** group;
5. At least 24 credits must be upper-level (200 or higher);
6. Satisfactory completion of the Graduate Record Advanced Examination, MFAT, or departmental comprehensive evaluation;
7. Departmental honors: Completion and public presentation of a senior thesis; minimum 3.5 GPA in Political Science, and 3.3 GPA overall.

Minor Requirements

Twenty-four credits which must include POL-100 and 201 and at least 16 credits at the upper level. POL-401 is recommended. Only four credits from POL-226/227 and 328/329 may count for the Political Science Minor.

Four credits from POL, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Social Sciences.

POL 100 Introduction to Political Science

SO 4 cr
Introduction to the discipline of political science. Explores certain key themes and concepts of the discipline, such as politics and power, and considers some of the different approaches that political scientists use to study the political world. Introduces the discipline's four subfields of political theory, comparative politics, international relations and American politics, and explores the connections between them.

POL 101 The American Political System

SO 4 cr
Study of institutions and processes of politics and government. Contemporary political problems. Primary focus on federal government with some attention to state and local politics.

POL 103 Reel Politics

SO 2 cr
Exploration of the portrayal of American politics in historical and contemporary films.

POL 111 Introduction to Comparative Politics

SO 4 cr
Examines concepts and approaches to comparative political study, comparative functions, processes and structures. Explores issues and concerns such as political change, democracy, effectiveness and stability.

POL 115 Ethnic Politics Case Studies

SO 4 cr
Explore the nature of ethnic identity, its potential for and actualization of political activism and violence, and survey the role political institutions play in mitigating or eliminating ethnopolitical activism.

POL 121 World Conflicts and Problems

SO 4 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.

POL 127 Presidential Library Research

SO 4 cr
Research visit to a presidential library. Lower level focuses on primary source investigations on topics of student interest. Upper level is preparation for a substantial research paper potentially leading to a senior thesis and/or published article.

POL 131 Introduction to Political Theory

SO 4 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 PHL-131.)

POL 141 Intro to Public Mgt & Policy Analysis

SO 4 cr
Study of leadership and administration in public organization, including relationship between bureaucracy and the executive, judicial and legislative branches; development of organizational theory; policy-making 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.

POL 180 Topics in Political Science

SO 2-4 cr
Examines special political subjects in both the foreign/international and American realms.

POL 201 Nature of Political Inquiry

SO 4 cr UL
An introduction to political science research, including the nature of political inquiry and research methodology. Development of an actual research project.

POL 202 Political Science Journal Club

SO 2 cr UL
The journal club introduces students to contemporary research in Political Science; concurrent sections of 202 and 302 will meet jointly. This seminar will evaluate recent peer-reviewed articles published in top-tier political science journals, helping students become familiar with contemporary research across a variety of topics. At the 202 level, students will be expected to engage with the material and actively participate in discussion.
Prereq: Four credits from Political Science

POL 211 Western European Politics

SO 4 cr UL
Comparative study of the main political systems of Western Europe. Examination of European Union and its policies, processes and outcomes. Comparative analysis of short- and long-term implications of European economic integration for the rest of the world.

POL 212 Eastern European Politics

SO 4 cr UL
A survey of contemporary Eastern European politics at a turbulent time that often attracts international attention to that region. Analysis of some of the transformation and continuity in the region's politics and society.

POL 215 Making and Breaking News

SO 4 cr UL
Regionalism and nationalism represent two persistent and significant political forces in most countries today. Indeed, for many countries they pose the most significant threat to these state's continued viability. This course explores these political phenomenon in Europe through hands-on research as students contribute to building a database of European regions, build GIS maps of regional data, and engage in both quantitative and qualitative analyses of these areas.

POL 217 Arctic Politics and Science

SO 4 cr UL
Survey the current state of scientific research examining polar melting. Explore the international legal and strategic implications of polar melting globally, with particular emphases on the five countries claiming polar waters (the U.S., Russia, Canada, Denmark and Norway).

POL 221 Analysis of International Politics

SO 4 cr UL
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 4 cr UL
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 UL
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.

POL 227 Model United Nations "B"
 SO 2 cr UL
 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 4 cr UL
 Historical and contemporary meanings of democracy, its assumptions and implications: tensions between theory and practice, majority rule and minority rights, civil disobedience, economic-political democracy, institutionalization of democratic procedures, and the future of democracy.

POL 232 Ancient Political Thought
 SO 4 cr UL
 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? (Cross-listed as PHL-232.)

POL 233 Current Controversies U.S. Politics
 SO 4 cr UL
 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 4 cr UL
 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. (Cross-listed s PHL-234.)

POL 235 Contemporary Political Thought
 SO 4 cr UL
 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?
Prereq: POL-100 or POL-131 recommended

POL 241 Presidential Leadership
 SO 4 cr UL
 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 4 cr UL
 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 4 cr UL
 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 4 cr UL
 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 2-4 cr UL
 Variable topics in political analysis.

POL 302 Political Science Journal Club
 SO 2 cr UL
 The journal club introduces students to contemporary research in Political Science; sections of 202 and 302 will meet jointly. This seminar will evaluate recent peer-reviewed articles published in top-tier political science journals, helping students become familiar with contemporary research across a variety of topics. At the 302 level, students will be responsible for article selection and leading discussion of the material. Students will prepare a substantive research proposal, including literature review, which can then be further developed into a senior thesis.
Prereq: POL-202

POL 315 Ethnic Politics Case Studies
 SO 4 cr UL
 Explore the nature of ethnic identity, its potential for and actualization of political activism and violence, and survey the role political institutions play in mitigating or eliminating ethnopolitical activism.
Prereq: POL-215

POL 325 U.S. Foreign Policy
 SO 4 cr UL
 Study of goals of American foreign policy and U.S. role in changing world; structure, processes and politics of foreign policy-making; 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 4 cr UL
 Analyzes emergence and evolution of post- WWII national security state. Assesses impact of changing international environment on conceptions of "national security."

POL 327 Presidential Library Research
 SO 4 cr UL
 Research visit to a presidential library. Lower level focuses on primary source investigations on topics of student interest. Upper level is preparation for a substantial research paper potentially leading to a senior thesis and/or published article.

POL 328 Advanced Model UN "A"
 SO 2 cr UL
 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.
Prereq: POL-226 and 227

POL 329 Advanced Model UN "B"
 SO 2 cr UL
 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.
Prereq: POL-226 and 227

POL 335 Constitutional Law
 SO 4 cr UL
 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 341 Public Policy Analysis
 SO 4 cr UL
 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 & Theory
SO 4 cr UL
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 & Problems in Political Science
SO 4 cr UL
Provides exposure to leadership of those working currently, or historically, to secure minimum standards for protecting human rights and limiting or ending conflict. Course will study institutions created to address the need for international law and protection of rights and dignity. Students will be immersed in the reasons for and implementation of international standards and institutions to protect human rights, especially related to rules of war. A core component of this course is students develop a plan to address challenges and further build on solutions observed during the course.

POL 381 Washington Semester
SO 4 cr UL
Credit awarded for student participation in seminars and coursework. (American University)

POL 382 Washington Semester
SO 4 cr UL
Credit awarded for student participation in seminars and coursework. (American University)

POL 385 Political Science Practicum
1-4 cr UL
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 4 cr UL
Comprehensive capstone study of politics within the context of a distinct theme in political science.

POL 499 POL Independent Study: Readings
1-4 cr UL
Individual study of particular topic or problem area; intensive reading; problem formulated with instructor consent.

POL 500 Senior Thesis
SO 4 cr UL
Under supervision, student formulates a project topic or research program, conducts research, then prepares and publicly presents a senior thesis. Required for departmental honors.

Psychology (PSY)

Major Requirements

1. Thirty-six credits in Psychology which must include PSY-121; 201 or 204; 212; 220; 225; 231 or 236; 305; 314 and 4 additional elective credits in PSY.
2. The Graduate Record Examination Psychology Subject Test is required for the comprehensive evaluation.
3. The Department recommends that students supplement the major with adjunct courses from Biology, Computer Science, Sociology and Anthropology, Mathematics and Philosophy.
4. PSY-310, 390 and 500 are strongly recommended to students considering graduate study in Psychology or Cognitive Science.

Minor Requirements

Twenty-four credits of Psychology.

Four credits from PSY, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Natural Sciences - Life Sciences.

PSY 121 Introduction to Psychology
NS1 4 cr
Survey of major areas of psychology: learning, perception and cognition, human development, individual differences, social psychology and abnormal psychology. Laboratory. Course fee.

PSY 200 Animal Behavior
NS1 4 cr UL
Introduction to the ethological approach: aggression, courtship, cooperation, social structure and means of communication in a variety of species. Includes laboratory and field experience in observation and recording of behavior.
Prereq: PSY-121 or BIO-120 and Permission

PSY 201 Physiological Psychology
NS1 4 cr UL
Study of physiological processes and structures underlying behavior and development. Laboratory techniques for investigation of electrical and chemical brain activity. Laboratory. Course fee.
Prereq: PSY-121

PSY 204 Sensation and Perception
NS1 4 cr UL
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.
Prereq: PSY-121

PSY 212 Personality I
NS1 4 cr UL
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.
Prereq: PSY-121

PSY 220 Statistics
NS3 4 cr UL
Introduction to descriptive and inferential statistics, and factorial analysis of variance. Appropriate for both life and social sciences.
Prereq: PSY-121 or Permission

PSY 225 Research Methods
NS1 4 cr UL
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.
Prereq: PSY-121 and 220

PSY 231 Developmental Psychology
4 cr UL
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.
Prereq: PSY-121

PSY 236 Social Psychology
NS1 4 cr UL
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.
Prereq: PSY-121 and SOA-101

PSY 240 Behavior Modification
NS1 4 cr UL
Application of psychological principles to human concerns including teaching, child care, stress management, study skills, self-control and persuasion.
Prereq: PSY-121

PSY 245 Human Sexuality
NS1 4 cr UL
Examination of variety and origins of human sexuality from physiological, evolutionary and social-learning perspectives.

Prereq: PSY-121

PSY 260 Psychology of Aging

NS1 2 cr UL
Examination of current psychological theory and research concerning physical changes, cognition, personality and psychopathology in the later years of life.
Prereq: PSY-121


PSY 275 Psychological Testing & Measurement

NS1 2 cr UL
Consideration of principles involved in constructions, 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.
Prereq: PSY-121

PSY 280 Topics in Psychology

NS1 2-4 cr UL
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. May have other prerequisites in addition to PSY-121.
Prereq: PSY-121

PSY 305 Motivation & Learning

 NS1 4 cr UL
In-depth study of theoretical background and current research on motivation and learning among human and non-human species.
Prereq: PSY-201 or 204; PSY-220, 225 or Permission

PSY 310 Cognition

NS1 4 cr UL
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.
Prereq: Three courses in PSY or Permission


PSY 312 Personality II

NS1 4 cr UL
In-depth examination of personality theory and of major controversial issues in the contemporary literature.
Prereq: PSY-121 and 212

PSY 314 Abnormal Psychology

NS1 4 cr UL
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.
Prereq: PSY-121 and 212

PSY 331 Developmental Psychology

 NS1 4 cr UL
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.
Prereq: PSY-121 and 212

PSY 385 Psychology Practicum

SL 2-4 cr UL
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.
Prereq: PSY-121

PSY 390 Clinical Field Experience

NS1 SL 4 cr UL
Participation in programs in hospitals, agencies, schools, businesses or the judicial system. Faculty and on-site professionals provide intensive supervision. Students improve 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.

Prereq: PSY-121; 212; 240 or 280; and 314; or Permission

PSY 399 Psychology Independent Study

1-4 cr UL
Either (1) an individually-designed program of reading on a topic not covered by formal courses or (2) research experience on a faculty-directed project.

PSY 499 Psychology Independent Study

2-4 cr UL
Planned program of reading in preparation for senior thesis.

PSY 500 Senior Thesis

 2-4 cr UL
Development and conduct of original, independent, empirical investigation. Required for departmental honors.
Prereq: PSY-499, Senior Standing and Permission

Public Affairs Institute (PAF)

Alma's Public Affairs Institute offers interdisciplinary experiences for students who, regardless of particular majors, have common academic and vocational interests in public affairs. The program includes workshops, visiting speakers, scholars-in-residence, professional consulting and advising.

Requirements

To earn certification in the Public Affairs Program, students must earn a minimum of 18 credits drawn from the following classes: PAF-150, 160, 350, 360, 385, 450 and 499; and POL-141 or comparable classes, independent studies or seminars in other disciplines pre-approved by the Director of Public Affairs as alternatives of PAF-385, 450, or 499. Participants are encouraged to satisfy general education requirements by completing coursework in HST-105 or 121; PHL-126, 225, 227, 228, 229, 235 or REL-210; ECN-201 and 202, POL-101, or SOC-101; and ENV-105 or PSY-121. Elective coursework will be recommended by the program advisor to enhance skills and broaden perspectives.

Candidates who complete Alma's degree requirements and all Institute components will graduate with a bachelor's degree in the major subject and will have the following noted on their permanent record: *Completed the Public Affairs Program*. Candidates who satisfy the requirements prescribed above and who achieve a 3.0 overall GPA together with a 3.25 GPA in the Institute Program will have the designation *Public Affairs Fellow* inscribed on their permanent record. Admission to the Institute requires formal application and acceptance.

PAF 150 Public Affairs Colloquium

1-2 cr
Introduction to selected, critical public affairs issues through multidisciplinary and case-study approaches. Presentations by visiting speakers, other resource people and students.


PAF 160 Community Issues & Public Leadership I

1-4 cr
Investigation and implementation of projects related to economic and social development issues in local, regional and global community.

PAF 160T Community Issues & Public Leadership I

1-4 cr
Investigation and implementation of projects related to economic and social development issues in local, regional and global community.

PAF 350 Public Affairs Seminar I

 2-4 cr UL
Provides exposure to leadership of those working currently, or historically, to secure minimum standards for protecting human rights and limiting or ending conflict. Course will study institutions created to address the need for international law and protection of rights and dignity. Students will be immersed in the reasons for and implementation of international standards and institutions to

protect human rights, especially related to rules of war. A core component of this course is students develop a plan to address challenges and further build on solutions observed during the course.

PAF 360 Community Issues & Public Leadership II 1-4 cr **UL**

Advanced investigation and continuing implementation of projects related to economic and social development issues in local, regional and global community.

Prereq: PAF-150, 160 or Permission

PAF 380 Topics and Problems in Public Affairs 2-4 cr **UL**

Courses on special topics both substantive and procedural in public affairs and leadership in both the international and domestic realms. Objectives will vary with each offering, but in general will be at the upper level, requiring previous study of the political process, civic life and leadership. May have a course fee. Requires instructor permission.

PAF 385 Public Affairs Practicum 4-12 cr **UL**

Internship with public or private agencies arranged in consultation with the Public Affairs Institute advisor. Minimum of four credits required for all Public Affairs program participants although no more than eight may count toward the degree.

Prereq: PAF-450 and Permission

PAF 450 Public Affairs Seminar II 4 cr **UL**

Provides exposure to leadership of those working currently, or historically, to secure minimum standards for protecting human rights and limiting or ending conflict. Course will study institutions created to address the need for international law and protection of rights and dignity. Students will be immersed in the reasons for and implementation of international standards and institutions to protect human rights, especially related to rules of war. A core component of this course is students develop a plan to address challenges and further build on solutions observed during the course.

Prereq: PAF 350

PAF 499 Public Affairs Independent Study 2-8 cr **UL**

Interdisciplinary or multidisciplinary research arranged in consultation with the Public Affairs Institute advisor and supervised by faculty from at least two different departments. All Public Affairs program participants are required to have a minimum of two credits of Independent Study.

Prereq: PAF-385 and Permission

PAF 500 Senior Thesis 1-4 cr **UL**

Development and conduct of original, independent investigation concluding with a significant research paper, which should be presented and defended publicly.

Prereq: PAF-350, 360 or 450 and Permission

Public Health (PBH)

Minor Requirements

1. Core of 16 credits consisting of IPH-270, 331 and 430; MTH-116.
2. Two courses from the following: COM-243, ENV-105, PHL-229, POL-141 and SOC-234; other elective courses as approved by the program coordinator.
3. A four-credit practicum experience in a public health setting is strongly encouraged.

PBH 385 Public Health Practicum 1-8 cr **UL**

Requires instructor permission.

PBH 399 Public Health Independent Study

1-4 cr **UL**

Requires instructor permission.

Religious Studies (REL)

Major Requirements

1. Thirty-six credits in Religious Studies including REL-100 and 400.
2. Remaining program of study will be constructed on an individual basis in consultation with members of the department.
3. Foreign language study (either ancient or modern, depending on the student's academic interests) is strongly encouraged for all majors.

Minor Requirements

1. Twenty-four credits in Religious Studies including REL-100 and 400.
2. Remaining program of study will be constructed on an individual basis in consultation with members of the Department.

Four credits from REL, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

REL 100 Introduction to World Religions 4 cr

An introduction to the histories, major figures, sacred texts and belief systems of selected "world religions" such as Hinduism, Confucianism, Daoism, Judaism, Jainism, Buddhism, Christianity, Islam, and/or newer religious movements such as Mormonism or Baha'i Faith.

REL 101 Introduction to the Hebrew Bible 4 cr

Introduction to the Hebrew Bible from its origins to the Babylonian Exile (587-6 B.C.); focuses on history, literature and interpretation. Examination of assumptions and methodology.

REL 102 Introduction to the New Testament 4 cr

Introduction to the New Testament, its history, environment, literature and interpretation. Formative years of Judaism and growth of the Christian community.

REL 103 Vocation in Christian Traditions 4 cr

Examination of history of Christian thought and traditions from early church through modern period. Analysis and interpretation of selected documents.

REL 130 Creation Stories & Religious Themes 4 cr

Examination of diverse creation myths from many cultures and the role cosmologies play in forming a culture's worldview.

REL 150 Good Life in the World's Religions 4 cr

Examination of what constitutes a good life according to Judaism, Hinduism, Buddhism, Islam and Christianity.

REL 180 Topics in Religion 4 cr

Special topics in Religious studies will be explored.

REL 181 Topics in Biblical Study 4 cr


Topics may include Torah, Paul's Letters, Prophetic and Wisdom Literature, Synoptic Gospels, and/or Biblical Ethics and Social Problems. May be repeated for credit for distinct topics.

REL 202 Women, Gender & Religion 4 cr


This course addresses questions about women in various religious traditions and examines the ways feminist theory interacts with the

study and practice of religion.

REL 205 Christianity

 AH 4 cr
An introduction to Christian thought and practice from the first century to the present. Course includes reading, discussion, and written analysis of a variety of primary and secondary texts; individual and group work; off-campus site visits; and/or academic service learning.


REL 206 Reformation

 AH 4 cr
An examination of the theological debates surrounding the Protestant and Catholic Reformations of 16th century Europe. Includes reading, discussion, and written analysis of various primary and secondary texts.

REL 210 Biblical Ethics & Community Service

AH 4 cr
Examines the Biblical ethic which underlies the religious understanding, worship and community service of Jewish and Christian religious communities. Opportunities to participate in community service agencies and programs.


REL 215 Philosophy of Religion

 AH 4 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. (Cross-listed as PHL-215.)


REL 216 Existentialism

AH 4 cr
Examination, evaluation and discussion of selected subjects - the individual, freedom, responsibility, anxiety, hope, death, meaning of life - as treated in various essays, short stories and dramas. Focus on analysis and interpretation of texts. (Cross-listed as PHL-216.)

REL 217 Asian Philosophy and Religion

 AH 4 cr
Exploration of the histories and roles of the most influential religious traditions and philosophical systems in Asia: Hinduism, Buddhism, Confucianism, and Daoism. (Cross-listed as PHL-217.)

REL 219 Judaism and Islam

 AH 4 cr
An examination of Judaism and Islamic thought and practice from the formative periods to the present, including contemporary debates. Includes reading, discussion, and written analysis of various primary and secondary texts.


REL 220 Bible and Society

AH 4 cr **UL**
Explores how the social context (ethnic, economic, class, etc.) of faith communities shapes the study, understanding, and use of scripture in worship and impacts the values and daily lives. Emphasis on lectionary readings shared by Protestants and Roman Catholics, and the Hebrew scriptures. Requires instructor permission to register. (Cross listed as SOC-221.)


REL 225 Environmental Ethics

AH 4 cr
Examination of ideas of nature, relation of humans to nature and human responsibilities to, for and with nature from Western (inherited and current), alternative Western (deep-ecology, ecofeminism, Gaia) and Eastern perspectives. Focus on understanding various environmental ethical perspectives and their personal, social and environmental consequences.


REL 230 Religion and Science

 AH 4 cr
Examination of the relationship between religion and science through both historical and contemporary issues.

REL 240 Jesus in Gospel & Film

 AH 4 cr
An introduction to the context, life, and teaching of Jesus of Nazareth through the media of film, primary texts (canonical and non-canonical gospels), and secondary texts in biblical criticism.

REL 250 Christian Ethics

 AH 4 cr
An exploration of current Christian debates on ethical issues such as human reproduction, homosexuality, pacifism and just war, racism, nationalism, genetic engineering, and/or economic and environmental justice. Prior knowledge of Christian traditions is helpful but not required.

REL 280 Topics in Religion

AH 1-8 cr
Special topics in Religious Studies will be explored.

REL 299 Religious Studies Independent Study

1-4 cr
Individual study of a particular subject in religion.


REL 302 Women, Gender & Religion

 AH 4 cr **UL**
This course addresses questions about women in various religious traditions and examines the ways feminist theory interacts with the study and practice of religion.
Prereq: One Religious Studies course or Permission

REL 305 Introduction to Christian Thought

AH 4 cr **UL**
An introduction to Christian thought and practice from the first century to the present. Course includes reading, discussion, and written analysis of a variety of primary and secondary texts; individual and group work; off-campus site visits; and/or academic service learning.
Prereq: One Religious Studies course or Permission


REL 306 Reformation

 AH 4 cr **UL**
An examination of the theological debates surrounding the Protestant and Catholic Reformations of 16th century Europe. Includes reading, discussion, and written analysis of various primary and secondary texts.
Prereq: One Religious Studies course or Permission

REL 307 Religion in America

AH 4 cr **UL**
Examination of history of religious thought and traditions in America. Analysis and interpretation of selected documents. Non-traditional forms of religion also included.
Prereq: One Religious Studies course or Permission


REL 315 Philosophy of Religion

 AH 4 cr **UL**
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. (Cross-listed as PHL-215.)
Prereq: One Religious Studies course or Permission

REL 316 Existentialism

AH 4 cr **UL**
Examination, evaluation and discussion of selected subjects - the individual, freedom, responsibility, anxiety, hope, death, meaning of life - as treated in various essays, short stories and dramas. Focus on analysis and interpretation of texts.
Prereq: One Religious Studies course or Permission

REL 317 Asian Philosophy and Religion

 AH 4 cr **UL**
Exploration of the histories and roles of the most influential religious traditions and philosophical systems in Asia: Hinduism, Buddhism, Confucianism, and Daoism.
Prereq: One Religious Studies course or Permission

REL 319 Judaism and Islam
 AH 4 cr UL
 An examination of Judaism and Islamic thought and practice from the formative periods to the present, including contemporary debates. Includes reading, discussion, and written analysis of various primary and secondary texts.
Prereq: One Religious Studies course or Permission

REL 330 Religion and Science
 AH 4 cr UL
 Examination of the relationship between religion and science through both historical and contemporary issues.
Prereq: One Religious Studies course or Permission

REL 340 Jesus in Gospel and Film
 AH 4 cr UL
 An introduction to the context, life, and teaching of Jesus of Nazareth through the media of film, primary texts (canonical and non-canonical gospels), and secondary texts in biblical criticism.
Prereq: One Religious Studies course or Permission

REL 350 Christian Ethics
 AH 4 cr UL
 An exploration of current Christian debates on ethical issues such as human reproduction, homosexuality, pacifism and just war, racism, nationalism, genetic engineering, and/or economic and environmental justice. Prior knowledge of Christian traditions is helpful but not required.
Prereq: One Religious Studies course or Permission

REL 380 Topics in Religion
 AH 4 cr UL
 Selected topics in religious studies. May be taken more than once. Only two registrations count toward a Major in Religious Studies.

REL 381 Topics in Biblical Studies
 AH 4 cr UL
 Topics may include Torah, Paul's Letters, Prophetic and Wisdom Literature, Synoptic Gospels, and/or Biblical Ethics and Social Problems. May be repeated for credit for distinct topics.
Prereq: One Religious Studies course or Permission

REL 385 Religious Studies Practicum
 1-4 cr UL

REL 399 Religious Studies Independent Study
 2-6 cr UL
 Individual study of particular subject in religion. Intensive acquaintance with selected part of the literature through planned program of reading.

REL 400 Theory & Method in Religious Studies
 AH 4 cr UL
 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). Required for, but not limited to, majors and minors in religious studies.
Prereq: REL-100

REL 500 Senior Thesis
 AH 4 cr UL
 Individual research culminating in preparation of major paper and departmental oral examination. Requires instructor permission to register.

- Thirty-six credits which must include:
 - SOC-101, SOC 251, 301, and 302.
 - Twenty credits chosen from SOC-141 or 180, 220, 224, 225, 228, 234, 243, 280, 326, 341, 353, 380, 385, 386, 499 or 500. No more than four credits of approved SOC-180 may count towards the major.
- One required cognate course: ANT-111
- The senior comprehensive evaluation for the major is the successful completion of the Major Field Aptitude Test in Sociology.

Sociology Minor Requirements

- Twenty-four credits which must include: SOC-101 and 251.

Four credits from SOC and/or ANT, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Social Sciences.

SOC 101 Principles of Sociology
 SO 4 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. Prerequisite for all other SOC courses. (Formerly offered as SOA-101).

SOC 141 Social Problems
 SO 4 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. (Formerly offered as SOA-141).
Prereq: SOC-101

SOC 180 Topics in Sociology
 SO 1-4 cr
 Investigation of a selected topic. May be taken only once for credit toward the SOC or ANT major. (Formerly offered as SOA-180).

SOC 220 Sociology of Family
 SO 4 cr UL
 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 also studied. Fall Term. (Formerly offered as SOA-220).
Prereq: SOC-101

SOC 224 Women, Work, and Calling
 SO 4 cr UL
 Examines the concepts of work, vocation, and calling as they apply to the lives of women, from a sociological perspective. Students are encouraged to apply insights from this course to their own vocational journeys. (Formerly offered as SOA-224).
Prereq: SOC-101

SOC 225 Conflict and Class
 SO 4 cr UL
 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.
Prereq: SOC-101

SOC 228 Media: Impact and Consequences
 SO 4 cr UL
 Examination of changes in media (from oral to print to electronic) with emphasis on the implications of electronic media from essentially a social structural (institutional) perspective. Traces the implications of this for other institutional areas, culture, and self.
Prereq: SOC-101 or permission

SOC 234 Aging and Health Institutions
 SO 4 cr UL
 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. (Formerly offered as SOA-234).

Sociology (SOC)

Sociology courses, as designated by the three-letter prefix SOC, are offered through the Sociology and Anthropology Department.

Sociology Major Requirements

Prereq: SOC-101

SOC 243 Social Deviance

SO 4 cr UL
Examination, evaluation and discussion of major theories and approaches to deviance, forms of deviance, their institutional relationships, as well as implications for individuals and applications of concepts to "real world" events. (Formerly offered as SOA-243).

Prereq: SOC-101

SOC 251 Social Psychology

SO 4 cr UL
Exploration of the intersection of sociology and psychology via such topics as social influence, social cognition, self, and attitudes as they impact areas such as intergroup relations, pro-social behavior, and aggression. Cross-cultural comparisons are made. (Formerly offered as SOA-251).

Prereq: SOC-101 and PSY-121 or Permission.

SOC 280 Topics in Sociology

SO 2-4 cr UL
Examines special subjects in Sociology. (Formerly offered as SOA-280).

Prereq: SOC-101 or ANT-111

SOC 301 Methods of Social Research

SO 4 cr UL
Fundamentals of basic principles, logic, and procedures of social research. Examines survey, unobtrusive, and qualitative methodologies as well as research ethics and policy. (Formerly offered as SOA-301).

Prereq: 12 credits from SOC

SOC 302 Sociological Theory

SO 4 cr UL
Exploration of sociology's theoretical foundations up to developments in the mid-1900s and their implications for social order, human agency, perceptions of social problems, and policy. (Formerly offered as SOA-302).

Prereq: 12 credits from SOC

SOC 326 Complex Organizations

SO 4 cr UL
In-depth examination of organizational theory with special focus on organizational metaphors and the social construction of structure, behavior, and quality. (Formerly offered as SOA-326).

Prereq: SOC-101

SOC 341 Race and Ethnic Relations

SO 4 cr UL
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.

Prereq: SOC-101

SOC 353 Sociology of Gender

SO 4 cr UL
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. (Formerly offered as SOA-353).

Prereq: SOC-101

SOC 380 Topics in Sociology

SO 2-4 cr UL
Examines special subjects in Sociology. (Formerly offered as SOA-380).

Prereq: SOC-101 or ANT-111

SOC 385 Sociology Practicum

SO 1-8 cr UL
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 four credits. Includes paper report. (Formerly

offered as SOA-385).

Prereq: Permission.

SOC 499 Sociology Independent Study

SO 2-4 cr UL
Supervised reading or project in special area of sociology. (Formerly offered as SOA-499).

Prereq: Permission.

SOC 500 Sociology-Senior Thesis

SO 4 cr UL
Designed for senior Sociology majors with the consent of the Department. Program of empirical and theoretical research. (Formerly offered as SOA-500).

Prereq: Permission.

Spanish (SPN)

Spanish courses, as designated by the three-letter prefix SPN, are offered through the Modern Languages Department.

Department Honors

Students may achieve honors in the Modern Languages Department by:

- Having a 3.5 GPA in all language classes,
- Performing beyond minimum requirements on the Language Exam portion of the Departmental Comprehensive Evaluation, and
- Presenting a senior thesis of honors caliber.

Advanced Credit

Advanced Credit in a second language may be earned by

- Scoring at the 4 level or higher on the Advanced Placement (AP) exam.
- Successfully completing the International Baccalaureate Program (IB) HL exam with a score of 5.

Major Requirements

1. Thirty-six credits beyond SPN-112 which must include SPN-321 plus 16 credits of upper-level Spanish classes with a minimum of 4 credits at the 400 level.
2. A minimum of one semester of approved international study in a Spanish-speaking country.
3. Successful completion of ENG-201 or ENG-225.
4. Language Proficiency must be demonstrated by taking the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Exam, the *Examen Básico of the Diploma de Español como Lengua Extranjera* (DELE) or equivalent. Majors are expected to perform at the B2 level or equivalent.
5. Write and defend in open forum an acceptable paper of moderate length reflecting on their study of Spanish, their study abroad experience and how they combine with the mission of a liberal arts education.
Majors may earn honors in the department by writing a quality senior thesis and defending it in open forum.

Minor Requirements

1. Twenty-four credits in Spanish which must include SPN-321, 350 or 352 and at least 4 additional credits at the 300 level.
2. A semester or Spring Term of study in a Spanish-speaking country is highly recommended.
3. Language Proficiency must be demonstrated by taking the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Exam, the *Examen Básico of the Diploma de Español como Lengua Extranjera* (DELE) or equivalent. Minors are expected to perform at the B1 level or equivalent.

All courses are taught in Spanish unless otherwise indicated. Courses taught internationally may have a different emphasis from those offered on the Alma campus.

Teaching Major Requirements

1. Thirty-four of Alma's 36-credit-hour major must be beyond SPN-222 and include SPN-321, at least 4 credits at the 400 level, and at least 4 credits from each of these groups: Spain Culture and Civilization - SPN-350, 355, 261/361; Latin

American Culture and Civilization - SPN-334, 352, 364, 374, 263/363; and Literature - SPN-331, 340, 343, 344, 360, 362, 370, 372, 460, 462.

2. A minimum of one semester of approved international study in a Spanish-speaking country.
3. Successful completion of ENG-225 and EDC-445F.
4. Write and defend in open forum an acceptable paper of moderate length reflecting on their study of Spanish, their study abroad experience and how they combine with the mission of a liberal arts education.
5. In order to be recommended for teacher certification, students must pass the Michigan Test for Teacher Certification subject area test in Spanish as well as an appropriate external exam demonstrating language proficiency at a level commensurate with ACTFL's Advanced-Low. The Teacher Education Program is proactive about informing students of opportunities for taking these tests.

Teaching Minor Requirements

1. Twenty-three of Alma's 24 credit minor must be beyond SPN-222 and include SPN-321 and at least 4 credits from each of these groups: Spain Culture and Civilization - SPN-350, 355, 261/361; Latin American Culture and Civilization - SPN-330, 334, 352, 364, 374, 263/363; and Literature - SPN-331, 340, 343, 344, 360, 362, 370, 372, 460, 463.
2. A semester or Spring Term of study in a Spanish-speaking country is highly recommended.
3. Successful completion of ENG-225 and EDC-445F.
4. In order to be recommended for teacher certification, students must pass the Michigan Test for Teacher Certification subject area test in Spanish as well as an appropriate external exam demonstrating language proficiency at a level commensurate with ACTFL's Advanced-Low. The Teacher Education Program is proactive about informing students of opportunities for taking these tests.

Four credits from SPN 112 or higher, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

SPN 111 Beginning Spanish I

LA 4 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. Students who have earned credit for three or more years of high school Spanish may not enroll in SPN-111 or 112. (Alma, Alma Programs Abroad)

SPN 112 Beginning Spanish II

AH LA 4 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. Students who have earned credit for three or more years of high school Spanish may not enroll in SPN-111 or 112. (Alma, Alma Programs Abroad)
Prereq: SPN-111 or Permission

SPN 185 Service Learning in Spanish

AH LA 1-4 cr
May be repeated for credit with a maximum of four credits applied toward the major or minor. Requires permission and placement.

SPN 221 Intermediate Spanish Language I

AH LA 4 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. Students who have earned credit for three or more years of high

school Spanish will have a default placement of SPN-221. These students are encouraged to take the placement test to continue their study at a higher level. (Alma, Alma Programs Abroad)

SPN 222 Intermediate Spanish Lang II

AH LA 4 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. Students who have earned credit for three or more years of high school Spanish will have a default placement of SPN-221. These students are encouraged to take the placement test to continue their study at a higher level. (Alma, Alma Programs Abroad)

SPN 223 Intermediate Spanish Language III

AH LA 4 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 at the Universidad Iberoamericana. Requires placement into this course. (Mexico)

SPN 224 Intermediate Spanish Language IV

AH LA 4 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 at the Universidad Iberoamericana. Requires placement. (Alma Programs Abroad)

SPN 230 Hispanic Readings

AH 4 cr
Development of reading and vocabulary skills necessary for success in upper level study in Spanish. Practice of strategies and techniques to become more efficient and better readers, deciphering the meaning of unfamiliar vocabulary from structure and context, and improving comprehension of texts representative of a variety of genres.

SPN 255 Peninsular Literature in Translation

AH 4 cr UL
Reading and discussion of selected representative works of Spanish Peninsular literature in English translation. Content may vary. Does not count toward the Spanish majors or minors. (Alma)

SPN 261 Language & Culture in Spain

AH LA 4 cr
Spanish language instruction, investigation and comparative studies of social and ethnic issues. Students live with a host family. Destination may vary. Course fee. (Spring Term course)
Prereq: Permission

SPN 263 The Other America

AH LA 4 cr
Travel and study in "The Other America." Spanish language instruction, investigation and comparative studies of social and ethnic issues. Students live with a host family. Destination may vary. Course fee. (Spring term course)
Prereq: Permission

SPN 265 Hispanic-American Lit in Translation

AH 4 cr UL
Reading and discussion of selected representative works of Hispanic-American literature in English translation. Content may vary. Does not count toward the Spanish majors or minors. (Alma)

SPN 281 Conversation

AH LA 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)

<p>SPN 299 Independent Reading  1-4 cr UL Supervised study and research of an area not covered in available courses. <i>Prereq: Permission</i></p>	<p>SPN 331 Introduction to Hispanic Literature   AH LA 4 cr UL 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)</p>
<p>SPN 311 Spanish Grammar I  AH LA 4 cr UL 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)</p>	<p>SPN 334 Mexican Culture and Civilization  AH 4 cr UL Introduction to the society and culture of Mexico from a historical perspective: political, religious and social institutions. <i>Prereq: SPN-222 and Placement</i></p>
<p>SPN 312 Spanish Grammar II  AH LA 4 cr UL 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)</p>	<p>SPN 335 Spanish for Business & Commerce  AH LA 4 cr UL Acquisition of specific commercial concepts and vocabulary in Spanish and the study of worldwide and local economic factors. (Alma, Alma Programs Abroad) <i>Prereq: SPN-222 and Placement</i></p>
<p>SPN 313 Spanish Grammar III  AH LA 4 cr UL 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)</p>	<p>SPN 340 Survey of Hispanic-American Literature   AH LA 4 cr UL Reading and discussion of selections from major works of Hispanic-American Literature and their relationships to contemporary and subsequent society and culture. <i>Prereq: SPN-321 or Permission</i></p>
<p>SPN 314 Spanish Grammar IV  AH LA 4 cr UL 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)</p>	<p>SPN 343 Survey of Spanish Literature   AH LA 4 cr UL Reading and discussions of selections from the major works of Spanish literature and their relationship to contemporary and subsequent society and culture. (Segovia) <i>Prereq: SPN-222 and Placement</i></p>
<p>SPN 315 Advanced Spanish Language  AH LA 4 cr UL 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)</p>	<p>SPN 344 Survey of Regional Hispanic Literature  AH LA 4 cr UL Reading and discussion of regional literature, poetry, novels and epics. Themes and authors include pre-Columbian legend, Romanticism, Modernism. <i>Prereq: SPN-222 and Placement</i></p>
<p>SPN 316 Advanced Spanish Language  AH LA 4 cr UL 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)</p>	<p>SPN 350 History of Spanish Civilization  AH LA 4 cr UL 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) <i>Prereq: SPN-321 or Permission</i></p>
<p>SPN 321 Advanced Composition   AH LA 4 cr UL Advanced composition in a variety of genres aimed at developing skills appropriate to professional as well as academic contexts. (Alma)</p>	<p>SPN 352 Hispanic-American Culture & Civilization  AH LA 4 cr UL 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 affect on the United States. Readings, lectures, compositions and discussions in Spanish. (Alma, Alma Programs in Hispanic-America) <i>Prereq: SPN-321 or Permission</i></p>
<p>SPN 322 Written Expression  AH 4 cr UL Development of written skills and creative expression in a variety of genres. Taught in programs abroad. Prerequisite is placement during study abroad.</p>	<p>SPN 355 History of Art and Architecture  AH LA 4 cr UL 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) <i>Prereq: SPN-222 and Placement</i></p>
<p>SPN 325 Investigation of Grammar  AH LA 2-4 cr UL Intensive review of Spanish grammatical theory and structures. Prerequisites are SPN 321 and overseas study completed. <i>Prereq: SPN-321 or Permission</i></p>	<p>SPN 360 Spanish Literature to 1700   AH 4 cr UL 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) <i>Prereq: SPN-321, 331 or Permission</i></p>
<p>SPN 330 Myths, Tales and Legends  AH 4 cr UL Reading and discussion of Hispanic folktales and traditional stories. Focus on cultural context and narrative tradition, combined with principles of orality and storytelling. <i>Prereq: SPN-321 or Permission</i></p>	

SPN 362 Hispanic-American Literature to 1888
 🗞️ 🌐 AH 4 cr UL
 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)
Prereq: SPN-321, 331 or Permission

SPN 364 Indigenous Cultures
 🌐 AH 4 cr UL
 Period, cultural, economic, and ethnic studies of the people of a specific country in Hispanic America. (Alma Programs Abroad)
Prereq: SPN-222 and Placement

SPN 370 Spanish Literature Since 1700
 🗞️ 🌐 AH 4 cr UL
 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)
Prereq: SPN-321, 331 or Permission

SPN 372 Hispanic-American Literature Since 1888
 🗞️ 🌐 AH 4 cr UL
 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)
Prereq: SPN-321, 331, or Permission

SPN 373 Hispanic-American Theater
 🗞️ 🌐 LA 4 cr UL
 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.
Prereq: SPN-321 or Permission

SPN 374 Regional History of Hispanic America
 🌐 AH 4 cr UL
 A comprehensive study of the history of specific regions of Hispanic America including pre-Columbian through contemporary issues. (Quito)
Prereq: SPN-222, Permission and Placement

SPN 377 Studies in Hispanic Film
 🌐 LA 4 cr UL
 This course, taught in Spanish, examines contemporary Hispanic cultural issues through a critical analysis of Hispanic film. Goals include learning to watch film critically to understand how cinematographic elements contribute to a deeper analytic understanding of the film. Additionally, students will critically examine the ways films engage with history and culture, analyzing them as sources of knowledge. Possible course fee.
Prereq: SPN-321 or Permission

SPN 380 Topics in Spanish
 🌐 AH 2-4 cr UL
 Requires instructor permission. Prerequisites vary by topic.

SPN 460 Seminar in Spanish Literature
 🗞️ 🌐 AH 4 cr UL
 Advanced study of a specialized area, movement, writer or work in Peninsular literature; for example, Don Quijote, the picaresque, the post-Civil War novel. (Alma)
Prereq: SPN-321, 331 or Permission

SPN 462 Seminar in Hispanic-American Literature
 🗞️ 🌐 AH 4 cr UL
 Advanced study of a specialized area, movement, writer or work in Hispanic-American literature; for example, Literature of the Conquest, the gaucho in Argentine society and literature, and the literature of the "Boom." (Alma)
Prereq: SPN-321, 331 or Permission

SPN 495 Thesis Preparation
 🌐 AH 1 cr UL
 Requires instructor permission.

SPN 499 Spanish Independent Study
 🌐 1-4 cr UL
 Supervised reading and research in an area not covered by available courses. Requires senior standing and instructor permission. (Alma)

SPN 500 Senior Thesis
 🗞️ 🌐 4 cr UL
 Definition of a question, thesis paper and oral defense in Spanish. Requires senior standing and permission. (Alma)

Theatre and Dance (THD)

Major Requirements

Emphasis in Dance: Thirty-six credits which must include eight credits of Dance Studio Technique, from THD-140, 142, 144, 145, 240, 242, 244, 245, 340, 342, 344 and 345 (any of which may be repeated for credit); 12 credits of Dance Theory from, THD-220, 350 and 351; eight credits of Choreography from THD-201, 301; four credits of Theatre; and four credits of Dance electives.

Emphasis in Theatre: Thirty-six credits which must include THD-125, 170, 171 and 232; eight credits from among THD-261, 262 and 263; four credits from Dance Studio Technique courses which include: THD-140, 142, 143, 144, 145, 147, 240, 242, 243, 244, 245 (any of which may be repeated for credit) and THD-141 (which may not be repeated for credit); plus eight credits in advanced-level Theatre courses.

All Majors are required to take the departmental comprehensive examination which is administered by the Department on campus at the end of the Winter Term of the senior year.

Minor Requirements

Emphasis in Dance: Twenty-four credits which must include six credits of Dance Studio Technique choosing from THD-140, 142, 144, 145, 240, 242, 244, 340, 342, 344 and 345 (any of which may be repeated for credit); eight credits of Dance History from THD-350, 351; four credits of Theatre; four credits of Choreography THD-201 plus two credits of dance electives.

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 are desirable.

Emphasis in Theatre: Twenty-four credits which must include THD-125; 170 or 171; THD-232; four credits from THD-261, 262 or 263; four credits from THD-146 or Dance studio (technique) courses; plus four credits of Theatre electives.

Four credits from THD, with the exception of practicum or independent study courses, count towards the Distributive Requirements in the Humanities.

THD 125 Acting
 AH 4 cr
 Introduction to acting through participation in exercises which emphasize moment-to-moment acting from the actor's impulse in contact with a partner. Culminates with class performance.

THD 140 Modern Dance I Beginning
 AH 1 cr
 Development of modern dance as a performing art. Movement exploration exercises and beginning techniques of modern dance. May be repeated for credit.

THD 141 Social Dance
 AH 1 cr
 Application of basic steps and variations of the cha cha, Charleston, jitterbug, polka and waltz.

THD 142 Tap Dance I Begin
 AH 1 cr
 Elementary exploration of rhythms and steps basic to the art form of tap dancing. Study of terminology and technique. Beginning tap routines with elementary progressions. May be repeated for credit.

THD 143 Yoga I
 AH 1 cr
 Yoga complements the dancer as well as the human being in many ways, particularly in the physical realm. Slow stretching and breathing increase flexibility and awareness, and restore tone and vitality. May be repeated for credit.

THD 144 Ballet I Beginning
 AH 1 cr
 Development of ballet as a performing art. Build strength and develop body carriage/posture and learn basic techniques of ballet. May be repeated for credit.

THD 145 Jazz Dance I Beginning
 AH 1 cr
 Development of jazz dance as a performing art. Principles of basic jazz dance. May be repeated for credit.

THD 146 Dance/Theatre Experience
 AH 4 cr
 Investigation of dance as an art form. Involves movement awareness, improvisation, exploratory exercises and movement games designed to build trust. Collaboration with class members to create a performance atmosphere is an integral part of the course. Students design environments dealing with the theatrical aspect of dance.

THD 147 Male Repertoire
 AH 1 cr
 Development of the male repertoire of dance as a performing art. Building strength, developing body carriage/posture, and learning the skills of the specific male repertoire of movement. May be repeated for credit.

THD 148 Highland Dance I
 AH 1 cr
 Introduction to basic movements, steps and terminology of Highland Dance. Emphasis on fundamentals of footwork and introduction to history and cultural background of Scottish dances. May be repeated for credit.

THD 149 Pointe I Beginning
 AH 1 cr
 Development of classical ballet skill techniques en pointe. Principles of beginning pointe technique are displayed and discussed. May be repeated for credit.
Prereq: THD 144 or Permission

THD 150 Theatre Company
 AH 1 cr
 Participation in acting and technical work on departmental productions with actual rehearsal and performance. May be elected more than once for credit.

THD 151 AC Dance Company
 AH 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.

THD 152 Theatre Administration
 AH 1 cr
 Participation in business areas required to create, manage and address audience needs for all departmental productions: publicity, programs, box office and house management. May be elected more than once for credit.

THD 170 Theatre Crafts
 AH 4 cr
 Introduction to the terminology, technology and techniques of technical production in the performing arts. Laboratory sessions in the theatre, workshops and backstage assignments on department

productions ensure practice of the topics discussed in class.

THD 171 Design for the Theatre
 AH 4 cr
 Introduction to the design of the physical environment in the theatre. Consideration of scenery, costume, lighting and sound for live performance; their unifying aesthetic principles and distinctions. Culminates in class presentation of student designs for particular plays.

THD 199 Theatre and Dance Independent Study
 AH 1-4 cr
 Supervised reading, research or projects.

THD 201 Choreography I
 AH 4 cr
 Analysis of choreographic styles. Principles of various choreographers examined and experienced. Development of individual skills for choreographing.

THD 211 Partnering
 AH 1 cr
 Introduction to partnering through participation in exercises in a hands-on environment. Build strength, develop body awareness, learn specific partnering skills. May be repeated for credit. Requires instructor permission.

THD 220 Creative Movement for Children
 AH 4 cr
 Exploration of movement as a means to improve communication, body/kinetic awareness, creative expression and perceptual-motor development. Focuses on the learning/teaching process, creativity, dance materials, methods and lesson planning. Observation and assisting in elementary school classrooms to facilitate student understanding of components listed above. Requires sophomore standing.

THD 225 Intermediate Acting
 AH 4 cr UL
 Continuation of THD 125 through exercises and scene study with emphasis on actions, objectives and characterization. Exercises and character analysis with scenes from the "Realists" and "Post-Realists."
Prereq: THD-125

THD 226 Voice and Language on Stage
 AH 4 cr UL
 Development and training of the student actor's vocal instrument for the theatrical performance. Principles and exercises to free, develop and strengthen the actor's voice.

THD 227 Stage Combat
 AH 4 cr UL
 Study of the art of physical combat in a theatrical setting using the Society of American Fight Director's guidelines. The focus will be on performing a hand to hand combat scene and a rapier fight scene. Laboratory.

THD 232 Directing
 AH 4 cr UL
 Study of basic procedures for the director: script analysis, communication and working with actors, and technical use of the stage. Students direct one or two short scenes emphasizing script analysis and the director's collaboration with actors.
Prereq: THD-125

THD 240 Modern Dance II Intermediate
 AH 1 cr
 Continuation of Modern Dance I. Emphasis on movement patterns and development of body alignment. May be repeated for credit.
Prereq: THD-140 or permission

THD 242 Tap Dance II Intermediate
 AH 1 cr
 Continued exploration into rhythms and steps basic to the art form of tap dancing. Study of terminology and technique. Intermediate tap routines with intermediate progressions. May be repeated for credit.

Prereq: THD-142 or Permission

THD 243 Yoga II

AH 1 cr
Yoga complements the dancer as well as the human being in many ways, particularly in the physical realm. Slow stretching and breathing increase flexibility and awareness, and restore tone and vitality. May be repeated for credit.

Prereq: THD-143 or Permission

THD 244 Ballet II Intermediate

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

Prereq: Permission

THD 245 Jazz Dance II Intermediate

AH 1 cr
Continuation of Jazz Dance I with emphasis on rhythmic patterns, intermediate steps and body isolations. May be repeated for credit.

Prereq: THD-145 or Permission

THD 246 The World of Theatre I

AH 2 cr UL
Introduction to the theatre as a unique artistic activity which reflects and transforms life experiences by shaping them into popular theatre forms: comedy, farce, tragedy and melodrama.

THD 247 The World of Theatre II

AH 2 cr UL
Consideration of the work of those who create the theatre event: actor, playwright, director and designer. The theatre experience as a communal experience resulting from collaboration of artists in dynamic interaction with audience.

THD 248 Highland Dance II

AH 1 cr
Continuation of Highland Dance I. Technical accuracy, style and conditioning stressed. Emphasis on performance preparation. May be repeated for credit.


Prereq: THD-148 or Permission

THD 249 Pointe II Intermediate


AH 1 cr
Continued development of classical ballet skill technique en pointe. Principles of intermediate pointe technique are displayed and discussed. May be repeated for credit.

Prereq: THD-149 or Permission

THD 261 Great Ages of Theatre I

 AH 4 cr UL
Survey of the physical structure, production methods and styles of theatre and the cultures that produced them from their beginnings to the Elizabethan Period. Considers primitive rituals and Eastern Theatre as well as Western Theatre. Includes reading representative plays and their place in the theatrical development of the period.

THD 262 Great Ages of Theatre II

 AH 4 cr UL
Survey of the physical structure, production methods and styles of theatre and the cultures that produced them from Elizabethan England to the Modern Period. Considers Renaissance Spain and France, Restoration England, and Baroque and Romantic Europe through the Modern Theatre. Includes the reading of representative plays and their place in the theatrical development of the period.

THD 263 Modern Drama

AH 4 cr
Survey of major plays written and produced in last 100 years. From Ibsen, Shaw and Chekhov through Williams, Miller, Beckett and Albee. Consideration given to staging.

THD 271 Scene Design

AH 4 cr UL
Exploration of scenery as a tool for expression in live performance. Exploration of visualization of the intellectual concept of a

production, research for scenic design development, advanced presentation techniques. Culminates in assembly of a portfolio of scenic designs for plays chosen by the student from approved list.

THD 272 Lighting Design

AH 4 cr UL
Exploration of lighting as an expressive tool in live performance. Intensive work in color theory, distribution, intensity, focus, and motion with light; advanced presentation techniques. Culminates in a student presentation of selected lighting moments for a play chosen by the student from approved list.

THD 273 Costume Design

AH 4 cr UL
Exploration of costumes as an expressive tool in live performance. Intensive work in color theory, line, mass, texture; survey of historical fashion; advanced presentation techniques. Culminates in assembly of a portfolio of student renderings for plays chosen by the student from approved list.

THD 274 Sound Design

AH 4 cr UL
Exploration of sound as an expressive tool in live performance. Gives students an understanding of the science, technology and historic usage of sound in theatre. Emphasis in script analysis and design and production process.

THD 275 Stage Management

AH 4 cr UL
Study of the basic procedures for the stage manager: organization skills, communication skills, supervisory skills, scheduling, budgeting and theatre technology as they pertain to the stage manager.

THD 276 Scene Painting

AH 4 cr UL
Learn basic scene painting techniques such as marble, stone work and wood grains and apply them to scene painting projects. Course culminates in a major project including multiple techniques.

THD 280 Topics in Theatre and Dance

AH 4 cr
Special topics and projects selected by instructor. Background prerequisites vary with selections.

THD 292 Playwriting

AH 4 cr UL
Students write several brief etudes in addition to writing and revising a more substantial script. The course uses staged readings and feedback from actors and audience members to help students learn the craft of writing for performance. Emphasizes revision and collaboration in the production process. May be repeated once for credit.

Prereq: Permission

THD 299 Theatre and Dance Independent Study

1-4 cr UL
Supervised reading, research or projects.

THD 301 Choreography II

AH 4 cr UL
Further investigation of the analysis of choreographic styles. Continued development of individual skills for choreographing.

Prereq: THD-201 or Permission

THD 325T Studio:Acting

AH 2-4 cr UL
Advanced participation as an actor cast in a public performance of a theatre production under the direction of a faculty supervisor. The student must be cast in a major role, submit a written character analysis and journal of rehearsals and performances of that role. May be repeated for credit.

Prereq: THD-125 and Permission

THD 326 Meisner Activity Exercise

AH 4 cr UL
Continuation of THD 125 through in depth work with the Meisner Activity Exercise. The interdependent steps of the activity exercise

reinforces the process of really doing something with a purpose and deepens the actor's sense of creating truthful behavior on stage.

THD 327 Meisner Action Exercise 4 cr **UL**
AH
Continuation of THD 125 through exploration of the Meisner Nursery Rhyme Exercise to help deepen the concept of justifying words and playing actions.

THD 332 Intermediate Directing 4 cr **UL**
AH
Continuation of THD 232. Principles and techniques of stage directing culminating in the analysis, casting and direction of a one-act play for public presentation.
Prereq: THD-232

THD 340 Modern Dance III Advanced 1 cr **UL**
AH
Continuation of Modern Dance II. Emphasis on refinement of performance techniques, style and improvisation. May be repeated for credit.
Prereq: THD-240 or Permission

THD 342 Tap Dance III Advanced 1 cr **UL**
AH
Continued exploration into rhythms and steps basic to the art form of tap dancing. Study of terminology and technique. Advanced tap routines with advanced progressions. May be repeated for credit.
Prereq: THD-242 or Permission

THD 343 Yoga III - the Experience 1 cr **UL**
AH
Yoga complements the dancer as well as the human being in many ways, particularly in the physical realm. Slow stretching and breathing increase flexibility and awareness, and restore tone and vitality. May be repeated for credit.

THD 344 Ballet III Advanced 2 cr **UL**
AH
Continuation of Ballet II. Emphasis on further development of style and technique. May be repeated for credit.
Prereq: Permission

THD 345 Jazz III Advanced 1 cr **UL**
AH
Continuation of Jazz Dance II with emphasis on advanced rhythmic patterns and isolations. May be repeated for credit.
Prereq: THD-245 or Permission

THD 346 Dance/Theatre Trip 4 cr **UL**
AH
In-depth investigation and exploration of various dance and theatre forms. Opportunities to witness professional dance companies and theatre companies, attending performances and touring backstage. Historical backgrounds and current trends in dance and theatre examined. Journal, critiques and final paper. Trips have included London, New York, and Toronto.
Prereq: Permission

THD 347 Dance Criticism 4 cr **UL**
AH
Introduction to the history of dance criticism as well as philosophies of early dance critics. Review dance films, video tape recordings and actual performances and evaluate each in the various critical styles. Investigate the structure and function of historical, recreative and judicial criticism, and review dance critics of today and their influence upon the dance world.
Prereq: Sophomore Standing

THD 349 Pointe III Advanced 1 cr **UL**
AH
Continued development of classical ballet skill technique en pointe. Principles of advanced pointe displayed and discussed. Includes classical variations en pointe. May be repeated for credit.
Prereq: THD-149, 249 or Permission

THD 350 Dance History I 4 cr **UL**
AH
Survey of culture, styles and methods of dance from its beginnings until the end of the Baroque period. Primitive rituals and liturgical, theatrical, Western and non-Western dance forms.

THD 351 Dance History II 4 cr **UL**
AH
Survey of culture, styles and methods of dance from the Baroque period to the Modern period. Ethnic, concert and interpretative forms. Emphasis on the theatrical ballet and 20th century contemporary dance.

THD 371 Studio:Scenery 2-4 cr **UL**
AH
Advanced tutorial in scenic design. Students responsible for all research materials, production drawings, models, plots and schedules for a theatre or dance production working in close consultation with a faculty member. Culminates in the realization of a scenic project. May be repeated for credit.
Prereq: THD-271 and Permission

THD 372 Theatre Studio: Lighting 2-4 cr **UL**
AH
Advanced tutorial in lighting design. Students responsible for all research materials, production drawings, plots and schedules for a theatre or dance production working in close consultation with a faculty member. Culminates in the realization of the lighting atmosphere for a public performance and a written analysis of the project. May be repeated for credit.
Prereq: THD-272 and Permission

THD 375 Theatre Studio: Management 2-4 cr **UL**
AH
Advanced participation as a stage manager of a theatre production under the tutelage of a faculty supervisor. Students organize and run auditions, rehearsals, technical rehearsals and performances of a major production for public performance. May be repeated for credit.
Prereq: THD-170 and Permission

THD 385 Theatre and Dance Practicum 4 cr **UL**
Study-work participation in community institutions, schools or professional organizations combined with faculty supervision. Practical experience in teaching, directing or performance of theatre and dance. Culminates in written report.
Prereq: Permission

THD 399 Theatre and Dance Independent Study 1-4 cr **UL**
Supervised reading, research or projects.

THD 432 Theatre Studio: Directing 2-4 cr **UL**
AH
Advanced tutorial in the principles and techniques of stage directing culminating in the analysis, casting and directing of a full-length play.
Prereq: THD 232 and Permission

THD 480 Topics in Theatre and Dance 4 cr **UL**
AH
We will be learning the art of Stage Combat. First we will train on our own to get ready, and then Scot Man, Society of American Fight Director's Fight Master, will arrive to train the class for a two day intensive. The class will then travel to two high schools (TBD) to train the high school students in basic stage combat. The class will also travel to watch a professional theater production and see how combat is used in the theatrical world.
Prereq: Take THD-227- Stage Combat I

THD 499 Theatre and Dance Independent Study 1-4 cr **UL**
Supervised reading, research or projects.

Students with honors in Theatre and Dance must complete a Senior Thesis, approved and directed by the Department.

Women's and Gender Studies (WGS)

Minor Requirements

Twenty-four credits which must include:

1. WGS-101 and 102 (eight credits).
2. At least four credits elected from the following: WGS-280, 385 or 399.
3. At least 12 credits elected from the following, eight of which must be at least 200 level or higher: COM-123 or 301; ENG-340; IPH-223, 301 or 303; HST-140, 228 or 253; POL-141, 231, or 381/382; REL-202; SOC-220, 234, 353, or additional approved course.

WGS 101 Introduction to Women's Studies

4 cr

Studies of a rich and varied selection of classic and contemporary works from the humanities and social sciences centered on women's images, realities and choices. Interdisciplinary survey of women's contributions, concerns, perspectives and theories. Diversity of class, ethnicity, race and sexual orientation addressed from feminist perspectives which counterbalance traditional biases.

WGS 102 Introduction to Feminist Thought

4 cr

Studies of historical and contemporary works examining feminist theoretical approaches to explaining experiences, representations and relative positions of women in society. Overview of American feminist thought which includes the varieties of liberal, cultural, Freudian, socialist, existential and radical feminism. Also considers the theoretical contributions of women of color, postmodernists and poststructuralists.

WGS 280 Topics in Women's & Gender Studies

1-4 cr UL

Specific topics concerning gender issues, choices, realities and self-expression chosen by the instructor. May be taken more than once for credit with no more than four credits counted toward the minor.

Prereq: WGS-101

WGS 385 WGS Practicum

2-4 cr UL

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.

Prereq: WGS-101 and Permission

WGS 399 WGS Independent Study

2-4 cr UL

In-depth study in the student's major area as related to the Women's Studies minor; under faculty member's direction.

Prereq: WGS-101; one of ENG-340, HST-140, REL-202, PHL-202, SOA-353 WGS-102 or WGS-280 and Permission

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- Glenn D. Granger '83,** President, Chief Executive Officer, Granger Construction Company; Lansing, Michigan. (2006)
- Douglas B. Gross '77,** Financial Advisor/Owner, Raymond James Financial Services; Ann Arbor, Michigan. (2013)

- Greg Hatcher '83,** Chief Executive Officer, The Hatcher Agency; Little Rock, Arkansas. (2008)
- Thomas J. Haverbush,** Orthopaedic Surgeon; Alma, Michigan. (2013)
- Cardell D. Johnson '02,** Senior Policy Analyst, U.S. Environmental Protection Agency; Seattle, Washington. (2012)
- David P. Larsen '84,** Partner, Bodman PLC; Detroit, Michigan. (2005)
- John McCormack,** Retired President and Chief Executive Officer, Firstbank Corporation; President and Chief Executive Officer, Firstbank-Alma; Alma, Michigan. (1993)
- James T. McIntyre '69,** President, C.S. McIntyre & Associates; Monroe, Michigan. (1983)
- Stephen F. Meyer '80,** President and Chief Executive Officer, Welch Allyn, Inc; Skaneateles Falls, New York. (2006)
- Roger L. Myers,** President and Chief Executive Officer, Presbyterian Villages of Michigan; Southfield, Michigan. (1994)
- Marcia J. Nunn '73,** Retired General Counsel, Automotive Components Holdings, LLC; Northville, Michigan. (2004)
- Elizabeth D. Parkinson '84,** Senior Vice President of Marketing and Partnerships, Detroit Lions; Detroit, Michigan. (2015)
- Carolyn E. Schultz '84,** Senior Quality Operations Professional, Zoetis; Kalamazoo, Michigan. (2012)
- Bryan K. Segedi '81,** Retired Vice Chair of Advisory Services, Ernst & Young, LLP; Naperville, Illinois. (2015)
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- Lynne Sherwood,** Vice Chairman of the Board, JSJ Corporation; Grand Haven, Michigan. (2002)
- Kirk L. Smith '81,** Partner/Owner, Integrity Fab & Machine, Inc.; Breckenridge, Michigan. (2013)
- Matthew E. Steinmetz '84,** Partner, Kirkland & Ellis LLP; Chicago, Illinois. (2012)
- Danette C. Taylor '84,** Medical Director, Movement Disorders Program, Beaumont Neuroscience Center; Royal Oak, Michigan. (2014)

Trustees Emeriti

- Bruce T. Alton,** Senior Consultant, AGB Search, Inc.; Washington, D.C. (2004-2013)
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- Merrill H. Armstrong '57,** Chairman of the Board, Armstrong International, Inc.; Stuart, Florida. (2011-2014)

Administration 2015-16

Lawrence Beck; Harbor Springs, Michigan. (1981–1998)

Warren F. Boos, Senior Vice President, UBS Financial Services; Orchard Lake, Michigan. (1968–2000)

John Colina, President, Colina Foundation; Grosse Ile, Michigan. (1989–2007)

James C. Conboy Jr., Retired President and Chief Executive Officer, Citizens National Bank of Cheboygan; Cheboygan, Michigan. (2000–2012)

Philippe Dunoyer, Retired Chairman and Chief Executive Officer, Total Petroleum (N.A.), Ltd.; Denver, Colorado. (1976–1996)

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; Clinton Township, Michigan. (2001–2013)

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; Vice President, Secretary and General Counsel, Dow Corning Corporation; Midland, Michigan. (1985–2004)

F. Martin Johnson, Retired Chairman of the Board, JSJ Corporation; Grand Haven, Michigan. (1975–2007)

David F. Lau, Owner/Director, Lau & Lau Associates, LLC; Bloomfield Hills, Michigan. (1996–2011)

Michael A. Leonard '59, Retired Managing Partner, Executive Consultants, Inc.; Tucson, Arizona. (1991–2003)

Donald A. Lindow, Senior Managing Director, Azimuth Capital Management, LLC; Bloomfield Hills, Michigan. (1987–2013)

Judith L. Maze; Kalamazoo, Michigan. (1972–1999)

Antje Newhagen '67, Retired Director of Publications and Communications, Altera Corporation; Los Altos, California. (2004–2013)

Calvin P. Owen, Retired President, Owen-Ames-Kimball Company; Grand Rapids, Michigan. (1981–1995)

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David T. Provost '76, Chairman, President and Chief Executive Officer, Talmer Bank and Trust; Troy, Michigan. (1994–2013)

Fred G. Secrest, Retired Executive Vice President, Ford Motor Company; Dearborn, Michigan. (1975–1996)

Eugene C. Yehle, Retired Director, Investor Relations and Pension Investments, The Dow Chemical Company; Midland, Michigan. (1977–1994)

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With the exception of the Officers, the members of the administration are listed in sector and office groups indicating the organization of the College. The year of appointment is given after each name. The appointments indicated are for the academic year 2015-16.

Officers

President

Jeff Abernathy, B.A., Longwood College; M.A., Virginia Commonwealth University; Ph.D., University of Florida. (2010)

Provost and Vice President for Academic Affairs

Michael L. Selmon, B.A., M.S., Miami University; M.A., Ph.D., University of Maryland. *Also Professor of English.* (1991)

Vice President for Advancement

Matthew P. vandenBerg, B.A., Alma College; M.P.A., Indiana University–Purdue University Indianapolis. (2015)

Vice President for Communication and Marketing

E. Ann Hall, B.S., M.S., Central Michigan University. (2006)

Vice President for Enrollment

Robert Garcia, B.A.A., Central Michigan University. (2009)

Vice President for Finance and Administration

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Vice President for Student Life

Nicholas A. Piccolo, B.S. Mansfield State College; M.S., Shippensburg State College; Ed.D., Indiana University. (2003)

Executive Assistant to the President

Sandra A. Gadde, B.A., Alma College. (2002)

Academic Affairs Staff

Associate Vice President for Academic Affairs;

Director of Center for Student Opportunity

Karen S. Klumpp, B.A., Alma College; M.B.A., Central Michigan University; Ph.D., Michigan State University. (1978)

Assistant Director of Center for Student Opportunity — Academic Support and Disability Services

Nate Payovich, B.A., University of Notre Dame; M.A., University of Chicago. (2010)

Assistant Director of Center for Student Opportunity — Career Development

Kirsten G. Simmons, B.S., Central Michigan University; M.S., New York University. (2015)

Assistant Director of Center for Student Opportunity — Venture Programs and Off-Campus Studies

Carla Jensen, B.A., McGill University; M.A., University of North Carolina at Chapel Hill. (2013)

Associate Provost

Steward Jensen, B.S., Harvey Mudd College; Ph.D., University of Chicago. *Also Assistant Professor of Physics.* (2009)

Associate Provost and Registrar

Julie M. Williams, B.A., Alma College; M.Ed., Loyola University Chicago; Ph.D., Indiana University. (2011)

Assistant Provost

Susan M. Deel, B.A.A., M.A., Central Michigan University. (1988)

Assistant Director of Responsible Leadership Institute

Sallie Scheide, B.S., Presbyterian College; M.S., Louisiana State University. (2003)

Remick Heritage Center Building Coordinator

Michael Sheldon, B.S., Northern Michigan University; M.F.A., University of Alabama. (2006)

Artist in Residence

Anthony Patterson, B.F.A., Ohio University. (1995)

Costume Designer/Costume Shop Supervisor

Tina Vivian, B.F.A., Alma College; M.F.A., Central Michigan University. (1999)

Library Director

Carol Zeile, B.A., Alma College; M.A. Indiana University; M.L.S., Western Michigan University. (1998)

Science Laboratory Coordinator

Mark A. Bunce, B.S., Alma College. (1984)

Laboratory Coordinator

Michael Bishop, B.S., University of Texas at Austin; M.S., Central Michigan University. (2004)

Service Learning Coordinator

Anne Ritz, B.A., M.A., Saginaw Valley State University. (1997)

Grants and Government Reports Specialist

Sheryle Dixon, B.Ed., M.A., Ph.D., University of Manitoba. *Also Instructor of Education and Philosophy.* (2007)

Institutional Research Analyst

John MacArthur, B.A., M.S., Mississippi State University. (2014)

Program Director and Instructor of Athletic Training

Phillip H. Andre, B.S., The Pennsylvania State University; M.S., Michigan State University; A.T., C. (2007)

Integrative Physiology and Health Science Laboratory Coordinator; Nursing Simulation Technologist

Drew Curry, B.S., Alma College; M.S., East Stroudsburg University; A.T., C. (2009)

Director of Clinical Instruction; Instructor of Athletic Training

Danielle Knight, B.S., Alma College; M.S., California University of Pennsylvania; A.T., C. (2012)

Advancement Staff**Assistant Vice President for Advancement**

Melinda L. Booth, B.A., Alma College; M.A., Oakland University. (2015)

Director of Alumni and Family Engagement

Amanda Slenski, B.A., Alma College; M.S., Miami University. (2010)

Associate Director of Alumni and Family Engagement

Emalee S. Rose. (2015)

Director of Annual Giving

Brent Neubecker, B.A., Alma College; M.A., Central Michigan University. (2006)

Director of Development

Brent F. Domine, B.S., Northwood University; M.S., Western Michigan University. (1998)

Director of Planned Giving

Robert W. Murray, CFRE; B.S., Alma College; M.S., Central Michigan University. (1995)

Regional Advancement Officer

TBA

Prospect Research Specialist

Katherine L. Tobias, B.S., Eastern Michigan University. (2014)

Athletics Staff**Athletic Director**

Steven Rackley, B.S., University of Utah; M.S.A., Ohio University. (2015)

Assistant Athletic Director; Senior Women's Administrator; Volleyball Coach

Sarah Dehring, B.S., Ferris State University; M.A., Lakeland College. (2011)

Sports Information Director

Paul W. Thomas, B.S., Northern Michigan University. (2015)

Assistant Sports Information Director; Multimedia Coordinator

Grace L. Wheeler. (2015)

Baseball Coach

Scott Kingston, B.S., Columbus State University. (2012)

Men's Basketball Coach

Sam Hargraves, B.A., Calvin College; M.A., Central Michigan University. (2011)

Women's Basketball Coach

Kris L. Johnson, B.A., Alma College; M.A., Central Michigan University. (2014)

Women's Bowling Coach

Kyle Woodcock. (2014)

Cheer and STUNT Coach

Michelle Sabourin, B.S., Grand Valley State University. (2012)

Cross Country Coach; Track and Field Coach

Matthew Chovanec, B.A., Alma College. (2002)

Football Coach

Gregory S. Pscodna, B.A., Adrian College; M.A., Michigan State University. (2012)

Assistant Football Coach; Recruiting Coordinator; Assistant Track and Field Coach

Mark Merlo, B.A., Alma College. (2010)

Assistant Football Coach; Defensive Coordinator

Drew Burton, B.S., Grand Valley State University; M.S., University of Wisconsin-Stevens Point. (2014)

Assistant Football Coach; Offensive Coordinator

Nathaniel Jensen, B.S., Defiance University. (2012)

Men's and Women's Golf Coach

Charles W. Goffnett, B.A., Central Michigan University. (1991)

Men's Lacrosse Coach

Michael D. Kinney, B.B.A., Northwood University. (2014)

Women's Lacrosse Coach

Ashley A. Johnson, B.A., Birmingham Southern College; M.A., Grand Valley State University. (2015)

Men's Soccer Coach

Joshua Oakley, B.A., Monmouth College; M.S., Eastern Illinois University. (2010)

Women's Soccer Coach

Ashley D. Bingaman, B.A., Northland College; M.A., Elmira College. (2015)

Softball Coach

Dennis Griffin, B.A., Hope College; M.A., Western Michigan University; A.T., C. (1989)

Men's and Women's Swimming and Diving Coach

William L. Copland, B.A., Alma College. (2013)

Men's and Women's Tennis Coach

Chris Sandro, B.A., Hope College; M.A., Central Michigan University. (2005)

Head Wrestling Coach

Todd W. Hibbs, B.A., Mount Union College; M.A., Michigan State University. (2011)

Associate Wrestling Coach

Jeremiah Tobias, B.A., University of Michigan. (2011)

Head Athletic Trainer

Brett D. Knight, B.S., Alma College; M.S., Western Michigan University A.T., C. (2011)

Athletic Trainer

Brady Hopkins, B.A., Coe College; M.S., Western Illinois University; A.T., C. (2013)

Athletic Trainer

Catherine Newman, B.S., Aquinas College; M.S., Western Michigan University. (2015)

Communication and Marketing Staff**Director of Communications**

Michael J. Silverthorn, B.A., Central Michigan University. (2005)

Director of Marketing

Bethany J. Pellerito, B.A., Central Michigan University. (2004)

Graphic Designer

Rachel L. Salazar, B.F.A., University of Michigan-Flint. (2015)

Web Content Strategist

Katherine F. Keaton, B.A., Alma College. (2014)

Copywriter / Social Media Strategist

Erica L. Shekell, B.A., B.A., Michigan State University. (2014)

Digital Media Coordinator

Benjamin E. Tigner, B.S., Ferris State University; M.S., Central Michigan University. (2015)

Enrollment Staff**Assistant Vice President for Enrollment**

Emalee S. Rose. (2015)

Director of International Recruitment

Carol L. Mandzik, B.A., University of South Florida; M.B.A., Husson College. (2015)

Senior Associate Director of Admissions

Karen Jezewski, B.A., Lycoming College. (1996)

Associate Director of Admissions

Anneliese Fox, B.A., Hope College; M.S.W., Michigan State University. (2008)

Senior Assistant Director of Admissions

Jessie DeHaan, B.A., Alma College. (2008)

Senior Assistant Director of Admissions

Ruth Majerle, B.A., Hope College. (1990)

Senior Assistant Director of Admissions

Rugelio Rameriez, B.A., Alma College. (2010)

Assistant Director of Admissions

Carrie Frame, B.A., Alma College. (2013)

Assistant Director of Admissions

Madeleine Randolet, B.A., Alma College. (2013)

Assistant Director of Admissions

Katie Yourchock, B.A., Alma College. (2013)

Enrollment Data Analyst and Systems Coordinator

Courtney Koch, B.S., Alma College. (2013)

Director of Financial Aid

Michelle McNier, B.B.A., Northwood University. (2010)

Assistant Director of Financial Aid

Sarah Kasabian-Larson, B.S., University of Wisconsin-Eau Claire; M.H.E.A., Upper Iowa University. (2015)

Finance and Administration Staff**Director of Financial Services and Controller**

Daniel Henris, C.P.A.; B.S., Ferris State College. (2007)

Assistant Controller

Cassie Tennant, C.P.A.; B.A., Alma College. (2007)

Accountant/Financial Analyst

Tyler Watters, B.A., Alma College. (2015)

Payroll Specialist

Heidi Holland, B.A., University of Phoenix. (2012)

Accounts Receivable Specialist

Denise McCracken, B.S.B.A., Central Michigan University;
J.D., Cooley Law School. (2011)

Director of Human Resources

Kenneth L. Borgman, B.A., Alma College. (1990)

Employment Specialist

Kathleen Sommerville. (2004)

Benefits Specialist

Lee Mapes, B.S., Central Michigan University. (2015)

Director of Facilities and Service Management

Doug Dice, A.E.T., Ferris State College. (2008)

Associate Director, Facilities and Service Management

Scott Dennison, B.S., B.A.M., Tri-State University. (2009)

Energy Management Engineer

Brandon S. Smith, B.S., Michigan Technological University.
(2010)

Chief Technology Officer

Keith Nelson, B.S., Northern Illinois University., M.A.,
Ph.D., University of Iowa. (2010)

Director, Enterprise Information Systems

Alan L. Crowley, B.S., M.S., Central Michigan University.
(1992)

Assistant Director, Enterprise Information Systems

Larry Elliott, B.A., B.S., Alma College; M.B.A., Central
Michigan University. (2004)

Director for Systems and Networking

Kyle A. Warner, B.S., M.S., Central Michigan University.
(2011)

Assistant Director, Instructional Technologist

Andrew Bare, B.A., Central Michigan University; M.A.,
Michigan State University. (2006)

Web Developer/Programmer

R. John Bradley, B.S., Central Michigan University. (2015)

Senior Programmer/Analyst

Darrell Waldron, B.E.E.T., DeVry Institute of Technology.
(2007)

Advancement Programmer/Analyst

Jana McSweyn, B.S., Ferris State University. (2013)

Network Manager

Justin J. Barnaby, B.S., Northern Michigan University.
(2011)

Technical Support Specialist

Jay M. Chapin, B.S., Alma College. (1999)

Technical Support Specialist

David McCallister, B.S., Park College; M.A., Saginaw
Valley State University. (2001)

Media Services Coordinator

Susan Clark, B.F.A., Central Michigan University. (1989)

Manager, User Services

Anthony King, A.A.S., Community College of the Air
Force; B.S., Indiana Institute of Technology, Fort Wayne.
(2007)

General Manager – College Corner Coffee and Books

Donna Sinclair. (2011)

Wholesale Book Specialist

Rob DuVall, B.A.A., Central Michigan University. (2011)

Manager of College Corner Retail Sales/Auxiliary Services

Ashley Strawn, B.S., University of Phoenix. (2011)

Student Life Staff**Director of Diversity and Inclusion**

Denelle N. Brown, B.A., M.S., Southern Illinois University.
(2013)

Coordinator of Financial Counseling

Cindy Smith, B.S., Michigan State University; M.A.,
Central Michigan University. (2013)

Director of Counseling, Health and Wellness

Anne Lambrecht, B.S., University of Wisconsin-Stout;
M.A., Northern Michigan University; L.P.C. (2009)

Licensed Professional Counselor

Anna Grajek, B.A., Lake Superior State University; M.A.,
Central Michigan University. (2004)

Limited License Professional Counselor

Jennifer Showers, B.A, Alma College; M.A., Central
Michigan University; L.L.P.C. (2007)

Director of Campus Life

David K. Blandford, B.S., University of Idaho. (2000)

Greek Advisor

Danielle E. Brandreth, B.S., Northern Michigan University.
(2012)

Hall Director

Jennifer R. Campfield, B.S., Alma College. (2014)

Hall Director

Willard Korson, B.S., Central Michigan University; M.A.,
Michigan State University. (2006)

Hall Director

David L. Lewis, B.A., Alma College; M.S.A., Central
Michigan University. (2012)

Hall Director

Alice M. Richard, B.A., Alma College. (2013)

Chaplain

Noel A. Snyder, B.A., Hope College; M.Div., Ph.D., Fuller
Theological Seminary. (2013)

Director of Campus Recreation and Conferences

Tammy Rees, B.S., Western Michigan University; M.S.,
Eastern Michigan University. (2007)

Assistant Director of Campus Recreation

Garrett Thelen, B.A., Alma College. (2013)

Faculty 2015-16

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 2015-16.

Jeff Abernathy, President. B.A., Longwood College; M.A., Virginia Commonwealth University; Ph.D., University of Florida. (2010)

Michael L. Selmon, Provost and Vice President for Academic Affairs, Professor of English. B.A., M.S., Miami University; M.A., Ph.D., University of Maryland. (1991)

Takeshi Abo, Visiting Assistant Professor of Music. B.M., Kyoto City University of Arts; M.M., D.M.A., Michigan State University. (2006)

Miriam B. Adam, Instructor of Nursing. B.S.N., M.S.N., University of Michigan School of Nursing. (2015)

Christopher A. Aiken, Instructor of Integrative Physiology and Health Science. B.A., University of Nevada, Las Vegas; M.S., University of Tennessee. (2015)

Victor Argueta, Assistant Professor of Physics; Pre-Engineering Coordinator. B.S., National Autonomous University of Mexico; M.S., Ph.D., The Ohio State University. (2009)

Julie Wegner Arnold, Professor of French. B.A., Alma College; M.A., University of Illinois; Ph.D., Michigan State University. (1981)

Dana Aspinall, Associate Professor of English. B.A., University of Maine at Fort Kent; M.A., University of South Carolina; Ph.D., University of Connecticut. (2008)

Gregory Baleja, Professor of Business Administration. B.A., M.B.A., Michigan State University. (1988)

Henry Balfanz, Visiting Assistant Professor of Business Administration. B.S., Southern Illinois University; M.B.A., Bradley University. (2013)

Karen L. Ball, Professor of Integrative Physiology and Health Science. B.A., Alma College; Ph.D., University of Illinois at Chicago. (1995)

Thomas Batchelder, Assistant Professor of Psychology. B.A., Princeton University; M.A., Michigan State University. (1978)

Gwyneth Hill Beagley, Professor of Psychology. B.A., Middlebury College; M.A., Bryn Mawr College; Ph.D., Michigan State University. (1985)

Walter Beagley, Professor of Psychology. B.A., Middlebury College; M.A., Ph.D., University of Pennsylvania. (1976)

Joe D. Beckmann, Professor of Biochemistry. B.S., University of Nebraska-Lincoln; Ph.D., Medical College of Wisconsin. (1996)

Kathryn Blanchard, Associate Professor of Religious Studies. B.A., Kenyon College; M.Div., Princeton Theological Seminary; Ph.D., Duke University. (2006)

Mary Theresa Bonhage-Freund, Professor 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)

Murray C. Borrello, Instructor of Geology and Environmental Studies. B.A., Albion College; M.S., University of Massachusetts. (1987)

Lynn Bowman, Visiting Assistant Professor of Dance. B.A., Luther College; M.F.A., University of Iowa. (2014)

Dirk Brines, Instructor of English. B.A., University of Michigan-Flint; M.A., Central Michigan University. (2009)

Mary Ellen Brines, Instructor of Spanish. B.S., Central Michigan University; M.S., Pontificia Universidade Catolica de Sao Paulo. (1997)

Liping Bu, Professor of History. B.A., M.A., Beijing University; M.S., Ph.D., Carnegie Mellon University. (1999)

Eric Calhoun, Assistant 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)

Jenise Cardinal-Donnelly, Visiting Instructor of Education. B.A., Alma College; M.S., Walden University; Ed.S., Central Michigan University. (2012)

Britt Cartrite, Associate Professor of Political Science. B.A., M.A., University of Denver; M.A., Ph.D., University of Colorado at Boulder. (2005)

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, Visiting Assistant Professor of New Media Studies. B.A., Indiana University-Purdue University Indianapolis; M.A., Central Michigan University; Ph.D., Wayne State University. (2015)

David L. Clark, Charles A. Dana Professor of Biology. B.S., M.S., Central Michigan University; Ph.D., University of Cincinnati. (1992)

Anthony J. Collamati, Assistant Professor of Communication and New Media Studies. B.A., St. Anselm College; M.A., Loyola University of Chicago; Ph.D., Clemson University. (2012)

Daniel K. Connolly, Assistant Professor of Art and Design, and Gallery Director. B.A., Trinity University; M.A., University of Texas; Ph.D., University of Chicago. (2011)

Robert Cunningham, Associate Professor of Economics. B.A., The Pennsylvania State University; M.A., Ph.D., Binghamton University. (1999)

Zhewei Dai, Associate Professor of Mathematics and Computer Science. B.S., Wuhan University; M.S., Ph.D., Michigan State University. (2005)

John E. Davis, Charles A. Dana Professor of Integrative Physiology and Health Science. B.A., Kenyon College; M.S., Ed.D., State University of New York at Buffalo. (1985)

Jillian D. Dickson, Visiting Assistant Professor of Art and Design. B.F.A., Bradley University; M.F.A., Clemson University. (2015)

- Janie Diels**, Associate Professor of Communication. B.A., University of Wisconsin-Madison; M.S., Ph.D., Cornell University. (2006)
- Nicholas John Dixon**, Elma C. and Wesley C. Dykstra Professor of Philosophy. B.A., University of Leeds; M.A., Ph.D., Michigan State University. (1986)
- Joel Dopke**, Associate Professor of Chemistry. B.S., St. Norbert College; Ph.D., University of Wisconsin-Madison. (2007)
- Nancy Dopke**, Assistant Professor of Chemistry. B.S., Millikin University; Ph.D., University of Wisconsin-Madison. (2007)
- Prathim “Maya” Dora-Laskey**, Instructor of English. B.A., M.A., Stella Maris College; M.Phil., University of Madras. (2012)
- Deborah A. Dougherty**, Professor of Spanish. B.A., Aquinas College; M.A., Ph.D., Michigan State University. (1996)
- Brian J. Doyle**, Assistant Professor of Biology and Biochemistry. B.S., Ph.D., University of Illinois. (2010)
- Andrew Duncan**, Co-Coordinator of Highland Arts/Visiting Instructor of Music. B.A., Alma College; M.S., Wayne State University. (2006)
- Thomas Ealey**, Professor of Business Administration. B.S., M.A., Bowling Green State University. (2006)
- Nicola Findley**, Professor of Education. B.Ed., University of Bristol; Ph.D., Michigan State University. (2001)
- Catherine Fobes**, Professor of Sociology. A.B., Muhlenberg College; M.Div., Yale University; M.S., Ph.D., Florida State University. (1998)
- Morgan Fonley**, Assistant Professor of Mathematics and Computer Science. B.A., B.S., M.S., Ph.D., University of Iowa. (2015)
- Crystal Fullmer**, Visiting Assistant Professor of Theatre and Dance. B.S., University of Idaho; M.F.A., University of New Mexico. (2015)
- Patrick J. Furlong**, Professor of History. B.A., M.A., University of Cape Town; Ph.D., University of California, Santa Barbara. (1993)
- Joanne R. Gilbert**, Charles A. Dana Professor of Communication. B.A., M.A., University of North Carolina at Chapel Hill; Ph.D., University of Texas at Austin. (1994)
- William Gorton**, Associate Professor of Political Science. B.A., College of William and Mary; Ph.D., University of Minnesota. (2005)
- Murray Gross**, Associate Professor of Music. B.A., M.M., Oberlin Conservatory of Music; D.M.A., Michigan State University. (2004)
- Amanda D. Harwood**, Assistant Professor of Biology and Environmental Studies. B.A., Monmouth College; M.S., Ph.D., Southern Illinois University. (2015)
- Scott T. Hill**, Professor of Chemistry. B.A., Gettysburg College; Ph.D., University of Pittsburgh. (1988)
- Di Huang**, Instructor of Business Administration. B.B.A., Southwestern University of Finance and Economics, China; M.B.A., M.S., University of Connecticut. (2015)
- Derick Hulme**, Arthur L. Russell Professor of Political Science. B.A., St. Lawrence University; M.A.L.D., Ph.D., Tufts University. (1992)
- Steward Jensen**, Associate Professor of Physics. *Also Associate Provost*. B.S., Harvey Mudd College; Ph.D., University of Chicago. (2009)
- Joseph A. Jezewski**, Associate Professor of Theatre and Dance. B.A., Lycoming College; M.A., University of Kentucky; M.F.A., Rutgers University. (1993)
- Timothy P. Keeton**, Associate Professor of Biology. B.A., Wittenberg University; Ph.D., University of Cincinnati College of Medicine. (1998)
- Angela Kelleher**, Associate Professor of Library Science. B.A., Michigan State University; M.L.S., Wayne State University. (2003)
- Benjamin C. Lambert**, Visiting Assistant Professor of Art and Design, Studio Technician. B.F.A., University of Southern Maine; M.F.A., Edinboro University of Pennsylvania. (2015)
- Nhan Le**, Assistant Professor of Economics. B.A., M.A., Ph.D., Indiana University. (2015)
- Holly Liu**, Associate Professor of German. B.A., M.A., Peking University; M.A., Texas Tech University; Ph.D., Vanderbilt University. (2006)
- C. Sandy Lopez-Isnardi**, Professor of Art and Design. B.S., SUNY College at New Paltz; M.F.A., University of Cincinnati. (1995)
- Edward C. Lorenz**, Reid-Knox Professor of History and Professor of Political Science. B.S., Towson State University; M.A., Georgetown University; Ph.D., University of Chicago. (1989)
- Brittany Luckett**, Visiting Instructor of Integrative Physiology and Health Science. B.A., Adrian College; M.S., Pennsylvania State University College of Medicine. (2012)
- Maurie Luetkemeier**, Professor of Integrative Physiology and Health Science. B.S., M.A., Ball State University; Ph.D., The Ohio State University. (2001)
- James Mazzuca**, Assistant Professor of Chemistry. B.A., Saint Mary’s University of Minnesota; Ph.D., University of South Carolina. (2014)
- Megan McCullen**, Visiting Assistant Professor of Anthropology. A.B., University of Illinois at Urbana-Champaign; M.A., Ph.D., Michigan State University. (2010)
- Mark L. McGlynn**, Visiting Instructor of Integrative Physiology and Health Science. B.S., M.S., Ohio University. (2015)
- Judith McKenna**, Associate Professor of Nursing Education, Director of Nursing Education. R.N., St. Joseph Mercy School of Nursing; B.S.N., Mercy College of Detroit; M.S.N., D.N.P., Oakland University. (2013)
- Myles Frances McNally**, Professor of Mathematics and Computer Science. B.S., Drexel University; Ph.D., Temple University. (1992)

- Scott Messing**, Charles A. Dana Professor of Music. B.A., Rutgers University; M.A., Ph.D., University of Michigan. (1982)
- Robert R. Molina**, Professor of Mathematics and Computer Science. B.S., Southern Oregon State College; M.S., Ph.D., Colorado State University. (1993)
- Sarah McCarthy Neumann**, Assistant Professor of Biology. B.S., University of the South; Ph.D., Michigan State University. (2014)
- William Nichols**, Secret Professor of Music. B.M., Western Michigan University; M.M., D.M.A., Michigan State University. (1983)
- Kristin Olbertson**, Associate Professor of History. B.A., Carleton College; J.D., University of Michigan Law School; Ph.D., University of Michigan. (2006)
- William W. Palmer**, Charles A. Dana Professor of English. B.A., M.A., Central Michigan University; Ph.D., Michigan State University. (1977)
- B. Cameron Reed**, Charles A. Dana Professor of Physics. B.S., University of Waterloo; M.S., Queen's University; Ph.D., University of Waterloo. (1992)
- Marcus Richter**, Associate Professor of Library Science. M.Th., Seminary of the ELFK, Leipzig, Germany; M.L.S., College of St. Catherine/Dominican University. (2009)
- Raymond Riley**, Professor of Music. B.M., University of Illinois; M.M., DePaul University; D.M.A., Michigan State University. (1988)
- Tina M. Rolling**, Assistant Professor of Business Administration. 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 at Lincoln. (2002)
- Dale L. Sanders**, Assistant Professor of Health Care Administration and Business Administration, Director of Health Care Administration. B.A., University of Tennessee; M.B.A., Northwood University; D.O., University of Health Sciences College of Osteopathic Medicine. (2010)
- Marc B. Setterlund**, Professor of Psychology. B.A., Gustavus Adolphus College; M.A., Ph.D., Johns Hopkins University. (1997)
- Timothy A. Sipka**, Associate Professor of Mathematics and Computer Science. B.A., Anderson College; M.A., M.S., Western Michigan University; M.S., Central Michigan University. (1979)
- Stephany Slaughter**, Associate Professor of Spanish. B.A., Washington College; M.A., Millersville University; Ph.D., The Ohio State University. (2009)
- Jessie C. Store**, Assistant Professor of Education. B.E., University of Malawi; M.E., University of Botswana; Ph.D., The University of North Carolina at Greensboro. (2012)
- Melissa M. Strait**, Towsley Professor of Chemistry. B.S., Oregon State University; Ph.D., Arizona State University. (1985)
- Brian Stratton**, Professor of Religious Studies. B.A., Pikeville College; M.Div., Ph.D., Princeton Theological Seminary. (2000)
- Brandi Stupica**, Assistant Professor of Psychology. B.S., Otterbein College; M.S., Ph.D., University of Maryland. (2012)
- Sarah E. Taylor**, Assistant Professor of Economics. B.S., Carnegie Mellon University; M.A., Ph.D., University of Michigan. (2015)
- Andrew Thall**, Associate Professor of Mathematics and Computer Science. B.A., Kalamazoo College; M.S., Ph.D., University of North Carolina at Chapel Hill. (2008)
- Peggy Thelen**, Associate Professor of Education. B.S., M.A., Central Michigan University; Ph.D., Michigan State University. (2004)
- Tina Thornton**, Instructor of Nursing. B.S.N., M.S.N., Eastern Michigan University. (2015)
- Timm Norman Thorsen**, Professor of Sociology. B.A., M.A.T., Beloit College; M.A., Ph.D., University of Massachusetts, Amherst; E.M.B.A., Claremont College. (1979)
- Jeffrey A. Turk**, Associate Professor of Chemistry. B.S., Cleveland State University; M.S., Ph.D., University of Cincinnati. (2006)
- Steven T. Vest**, Professor of Library Science and Head, 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)
- Micheal R. Vickery**, Professor of Communication. B.S., University of Alabama; Ph.D., University of Texas at Austin. (1992)
- Robert Vivian**, Associate Professor of English. B.A., M.A., University of Nebraska at Omaha; Ph.D., University of Nebraska at Lincoln. (2001)
- Victoria Walker**, Visiting Instructor of Music. B.M., M.M., Michigan State University. (1995)
- Laura von Wallmenich**, Assistant Professor of English. B.A., Colby College; M.A., Ph.D., University of Washington at Seattle. (2001)
- Daniel Wasserman**, Assistant Professor of History. A.B., University of Chicago; M.A., Ph.D., University of Virginia. (2013)
- Bradford S. Westgate**, Assistant Professor of Mathematics and Computer Science. B.S., Franklin W. Olin College of Engineering; M.S., Ph.D., Cornell University. (2015)
- Peggy A. Yates**, Instructor of Education. B.A., Alma College; M.A. in Ed., Central Michigan University; M.Spec. Ed., Saginaw Valley State University; Ed.S., University of Michigan–Flint. (2015)
- Carol Zeile**, Associate Professor of Library Science and Head, Technical Services. B.A., Alma College; M.A., Indiana University; M.L.S., Western Michigan University. (1998)
- David Zerbe**, Paul Cameron Russell Associate Professor of Music. B.M., M.M., Central Michigan University. (2004)

Part-Time

Jonathan Arlt, Sociology and Anthropology. M.A., Central Michigan University. (2010)

Jeff Ayres, Music. M.M., Central Michigan University. (2006)

Allissa Baxter, Business Administration/Health Care Administration. M.B.A., Northwood University. (2013)

Amy Beatty, Physics. B.S., Alma College. (1997)

Kristen Bennett, Dance. B.A., Grand Valley State University. (2008)

Michael Bishop, Biology and Laboratory Coordinator. M.S., Central Michigan University. (1998)

Dustin Bissell, English. M.A., Central Michigan University. (2015)

Dianne Borrello, Geology and Environmental Studies. B.S., Michigan Technological University. (1998)

Barbara Burdick, Music. D.M.A., University of Cincinnati College–Conservatory of Music. (2005)

Loretta Lanning Cetkovic, Music. M.M., Central Michigan University. (2013)

Alexandra Conell, Sociology and Anthropology. M.A., Michigan State University. (2012)

Katherine DeGood Cassidy, Dance. M.S., Wayne State University. (2011)

Sheryle Dixon, Education and Philosophy. Ph.D., University of Manitoba. *Also Grants and Government Reports Specialist.* (2007)

Rory Douglas, Geography. Ed.S., Michigan State University. (2007)

Edward Fedewa, Music. (2010)

Jamie Fiste, Music. D.M.A., University of Illinois, Urbana-Champaign. (2005)

Tincy Goggin, Mathematics and Computer Science. M.B.A., Michigan State University (2005)

Lani Kelly, Music. M.M., Michigan State University. (2009)

Joan Long, Music. M.S., University of Illinois; M.A., Central Michigan University. (2007)

Kenneth Marable, Philosophy. B.A., Alma College. (2011)

Carlos Melendez, Music. (2007)

Tess Miller, Music. D.M.A., Michigan State University. (2008)

Joseph Moscheck, Music. M.M., Oklahoma City University. (2014)

Aaron Munderloh, Integrative Physiology and Health Science. M.S., University of Indianapolis. (1997)

Kathy Paul, Education. M.A., Central Michigan University. (2011)

Gina Provenzano, Music. M.M., University of Maine. (2015)

Joseph Radtke, Music. M.M., Central Michigan University. (2015)

Alyse Redman, Communication and New Media Studies, M.Ed., Central Michigan University. (2012)

Karen Stiffler, Communication and New Media Studies. M.S., Central Michigan University. (2005)

Kenneth Tabacsko, English. M.A., Central Michigan University. (2005)

Larry Timm, Education. M.A., Central Michigan University. (2000)

Mindi Torrey, Philosophy. B.A., University of South Florida. (2011)

Matthew Tracy, Music. M.M., Michigan State University. (2011)

Ted Troxell, American Studies. M.M., Central Michigan University. (2009)

Robin VonWald, Music. M.M., University of Wisconsin-Madison. (2010)

Michael Walker, M.S., Michigan State University. (2012)

Tasha Warren-Yehuda, Music. D.M. Indiana University. (2015)

Randy Westmoreland, Music. M.M., University of Notre Dame. (2008)

Keith Wise, History and Religious Studies. Ph.D., American University. (1994)

Andrea Worful, Music. M.M., Michigan State University. (2005)

Emeriti

John W. Arnold, Professor Emeritus of German. B.A., M.A., Ph.D., Michigan State University. 1977-2006.

Carol Bender, Professor Emeritus of English. B.A., M.A., Central Michigan University; Ph.D., Michigan State University. 1986–2015.

Richard G. Bowker, Charles A. Dana Professor Emeritus of Biology. B.S., Cornell University; M.S., Ph.D., Northern Arizona University. 1977-2001.

George Dorian Choksy, Associate Professor Emeritus of Economics. B.A., Roanoke College; M.A., Ph.D., University of Tennessee, Knoxville. 1989–2014.

- Burnet V. Davis**, Arthur L. Russell Professor Emeritus of Political Science. A.B., Dartmouth College; M.A., Ph.D., University of Chicago. 1976-2002.
- Eugene C. Deci**, Professor Emeritus of Physics. B.A., Hamilton College; Ph.D., State University of New York at Binghamton. 1978-2002.
- Peter A. Dollard**, Professor Emeritus of Library Science. A.B., A.M.L.S., University of Michigan; M.A., University of Wyoming. 1974-2002.
- Carol Fike**, Professor Emeritus of Theatre and Dance. B.S., Brockport State University; M.F.A., University of North Carolina at Greensboro. 1984-2013.
- George Gazmararian**, Charles A. Dana Professor Emeritus of Business Administration. B.S., M.B.A., University of Detroit. 1966-1996.
- John Holman Gibson**, Professor Emeritus of Physics. B.S.E., Ph.D., University of Michigan. 1968-2007.
- 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.
- Lawrence E. Hall**, Associate Professor Emeritus of Library Science. B.A., M.A., M.A.L.S., University of Michigan. 1969-1999.
- Sedley Duane Hall**, Professor Emeritus of Education. B.S., M.E., Ed.D., University of Nebraska. 1963-1987.
- 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.
- Henry E. Klugh**, Charles A. Dana Professor Emeritus of Psychology. B.A., Geneva College; M.S., Ph.D., University of Pittsburgh. 1955-1986.
- 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.
- 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.
- 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.
- James V. Mueller**, Associate Professor Emeritus of Economics. B.A., Cornell College. 1976-2008.
- Melvin Andrew Nyman**, Professor Emeritus of Mathematics and Computer Science. B.S., Ferris State University; M.S., Ph.D., Michigan State University. 1981-2014.
- 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.
- Richard Allen Roeper**, Professor Emeritus of Biology. B.A., Lawrence University; M.A.T., Miami University; Ph.D., Oregon State University. 1972-2000.
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