

COLLEGE OF ARTS AND SCIENCES

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The College of Arts and Sciences is a distinctive learning community that forms the vital center of the University of Dayton. In the finest tradition of liberal education, the College is committed to excellence in the discovery, integration, dissemination and application of knowledge. Academic programs provide instruction in critical thinking and expression, social and cultural criticism, computation, scientific reasoning, the creative and performing arts, historical analysis, and religious and moral awareness. The College of Arts and Sciences takes as its mission the Marianist principle of educating the whole person and enabling all members of our learning community to fulfill their potential.

The faculty of the College of Arts and Sciences demonstrate connected learning and scholarship by integrating teaching, research and service. They engage students from across the University in this process through traditional and innovative approaches to learning. The faculty understand that the principles of liberal education emerge not only from the classroom, studio and laboratory, but also from the many resources the students have within their reach: advisement; mentoring; campus ministry; social and professional clubs and societies; campus media and publications; fine arts events; and membership on departmental and campus-wide committees where students gain experience in working with others and contribute to the wider University community. Taken together, these dimensions of liberal education form the basis for lifelong intellectual, professional and personal growth.

The College of Arts and Sciences affirms its commitment to the Catholic and Marianist tradition. In humanities and social science programs, in the physical and life sciences, and in the creative and performing arts, the College strives to ensure that its graduates are distinguished by their discernment and intellectual rigor, their broad base of learning, and their sense of moral responsibility. And through their participation in a vital learning community, the College ensures the graduates will be distinguished by their appreciation and respect for diversity, their commitment to service, and their ability to affect positively individual lives and the common good.

Academic Programs

For detailed information on specific majors and minors, please visit the links below.

The major is defined as a block of courses totaling at least 24 semester hours of upper-level work in a single discipline. Transfer students are required to take a minimum of 12 upper-level semester hours in the major at the University of Dayton. Some departments may have additional requirements for transfer students. These additional requirements are defined specifically in the departmental listings.

Single-discipline and interdisciplinary minors are defined in the departmental listings. Transfer students must take a minimum of six upper-level semester hours in the minor at the University of Dayton. Some departments may have additional requirements for transfer students. These additional requirements are defined specifically in the departmental listings.

The Bachelor of Arts is offered in:

- American Studies (p. 109)
- Art History (p. 114)
- Chemistry (p. 138)
- Communication (p. 147)
- Criminal Justice Studies (p. 159)
- Economics (p. 164)
- English (p. 167)
- French (p. 185)
- German (p. 185)
- History (p. 196)
- Human Rights Studies (p. 252)
- International Studies (p. 203)
- Languages (p. 184)
- Mathematics (p. 208)
- Music (p. 217)
- Philosophy* (p. 240)
- Political Science (p. 252)
- Psychology (p. 265)
- Religious Studies (p. 270)
- Sociology* (p. 278)
- Spanish (p. 186)
- Theatre, Dance and Performance (p. 285)
- Visual Arts (p. 114)
- Women's and Gender Studies (p. 290)

* Major programs offered in India in conjunction with the Marianists.

The Bachelor of Science is offered in:

- Applied Mathematical Economics (p. 209)
- Biochemistry (p. 139)
- Biology (p. 130)
- Chemistry (p. 139)
- Computer Information Systems (p. 154)
- Computer Science (p. 155)
- Environmental Biology (p. 131)
- Environmental Geology (p. 179)
- Geology (p. 180)
- Mathematics (p. 208)
- Medicinal-Pharmaceutical Chemistry (p. 141)
- Physical Science (p. 246)
- Physics (p. 247)
- Physics-Computer Science (p. 248)
- Pre dentistry (p. 260)
- Pre medicine (p. 262)
- Psychology (p. 266)

Other programs leading to the bachelor's degree:

- Art Education (B.F.A.) (p. 112)

- Fine Arts (B.F.A.) (p. 112)
- General Studies (B.G.S.) (p. 177)
- Graphic Design (B.F.A.) (p. 114)
- Music Composition (B.M.) (p. 221)
- Music Education (B.M.) (p. 217)
- Music Performance (B.M.) (p. 225)
- Music Therapy (B.M.) (p. 226)
- Photography (B.F.A.) (p. 112)

Established Interdisciplinary Majors

American Studies (p. 109), Criminal Justice Studies (p. 159), International Studies (p. 203), Premedicine (p. 262), Pre-dentistry (p. 260) and Women's and Gender Studies (p. 290) are present examples of established interdisciplinary majors. Such programs are established by interdisciplinary committees and administered by the program directors.

Individually Designed Interdisciplinary Majors

Students demonstrating extraordinary interest, special skills or needs, and sound academic status may initiate individually designed majors. Students carry the responsibility to find a faculty mentor or advisor for such majors. All University and College requirements for the Bachelor of Arts or Bachelor of Science degree must be fulfilled. The degree received will be a Bachelor of Arts or Science in Interdisciplinary Studies. Candidacy for the Bachelor of Arts or Science in Interdisciplinary Studies must be declared no later than the last semester of the junior year. Long-range plans for such majors must be submitted to the appropriate chairpersons and the dean for final approval. Plans may be altered with appropriate supporting rationale and the approval of the chairperson and dean.

Degree Requirements

1. To be awarded the bachelor's degree by the College of Arts and Sciences, it is necessary to complete all the requirements listed for one of the academic programs offered by the College.
2. A maximum of four semester hours of general activities courses, a maximum of two semester hours of physical education activities courses, a maximum of ten semester hours of MIL courses, and a maximum of six hours of applied courses may be counted in the semester hours required for the degree. In addition, a maximum of one semester hour from ASI 150, ASI 160, VAR 100, or an equivalent course may be counted in the semester hours required for the degree.
3. The final 30 semester hours must be earned at the University of Dayton. Furthermore, a minimum of 12 semester hours of course work at the 300 and 400 level in the major must be completed at the University.
4. The standard grade point average of at least 2.0 must be achieved in the major field, in the minor field, and in the total program. In the Bachelor of Fine Arts and Bachelor of Music Programs, a 2.0 cumulative grade point average is required in the nonprofessional courses as well as in the professional courses.
5. The College of Arts and Sciences' Competencies of Composition, Oral Communication, and Mathematics, are required for all bachelor degrees within the College.

Composition Competencies

The College of Arts and Sciences' composition competency requirement is satisfied by completing ENG 100 (or ENG 100A and ENG 100B) and

ENG 200, or ENG 200H, or ASI 120 with a grade of C- or higher. Students admitted to the University Honors program and students with sufficiently high verbal scores on the SAT and ACT are placed in ENG 200H. ENG 200H is a one-semester course which satisfies the University's Common Academic Program requirement in composition. Students who are placed in ENG 200H do not receive credit for ENG 100 but are free to take elective course work in place of the waived First-Year Humanities Commons composition.

All incoming first-year students are placed in ENG 100 unless:

- they are designated as Honors - placed in ENG 200H
- they are placed in ENG 200H (receive EM credit for ENG 100). For a score of 5 they receive EM credit for ENG 100 and ENG 200.
- they have an SAT (VB) score of 750 or above, or ACT (EN) of 35 or above - exempt from taking English composition
- they have an SAT (VB) score below 450, or ACT (EN) below 17 - placed in ENG 100A and ENG 100B
- they are in the CORE program (ASI 120 counts as ENG 200H)

Oral Communication Competencies

The College of Arts and Sciences' oral communication competency requirements are satisfied by completing the University's Common Academic Program requirement of CMM 100 Principles of Oral Communication, and with a grade of C- or higher.

Mathematics Competencies

In order to graduate, students are required to satisfy the Common Academic Program Mathematics requirement. The College of Arts and Sciences requires a grade of C- or better, or earn EM credit based on AP examinations for MTH 168 Analytic Geom & Calc or MTH 207 Intro to Statistics, or earn appropriate transfer credit, for any one of the Common Academic Program mathematics courses. (MTH 205 does satisfy the Common Academic Program Mathematics requirement, but is not applicable to the College of Arts and Sciences degree requirements.)

MTH 114	Contemporary Mathematics	3
MTH 129	Calculus for Business	3
MTH 137	Calculus I with Review	4
MTH 138	Calculus I with Review	4
MTH 148	Introductory Calculus I	3
MTH 149	Introductory Calculus II	3
MTH 168	Analytic Geometry & Calculus I	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 207	Introduction to Statistics	3
MTH 218	Analytic Geometry & Calculus III	4

6. It is the responsibility of the student to complete his or her Graduation Application form.

General Requirements for all Bachelor of Arts Programs

A minimum of 124 semester hours of approved coursework must be presented for the B.A. At least 48 semester hours must be completed at the 300-400 level. For limitations on credit and restrictions on courses, consult the chairperson or the dean. No more than 45 hours of the minimum 124 hours may be completed in a student's major discipline.

Introduction to the University

In the first semester, students take a course that introduces them to the University and to their major field of study. Discovering students take specific sections of this course.

Major Concentration

Most major programs require between 30 and 45 semester hours. For department or program requirements, consult program schedules or the department chairperson or program director.

Liberal Studies Curriculum

Every student will complete the Liberal Studies Curriculum. This Curriculum provides students with a breadth of study and experiences in the humanities, the creative and performing arts, the social sciences, and the natural sciences. It complements specialized study in a major and presupposes, builds upon and enhances the University's Common Academic Program (CAP). Where appropriate, credits in the Liberal Studies Curriculum may apply to other requirements but no more than six hours may be in the departmental major concentration. The Liberal Studies Curriculum includes:

Philosophy and Religious Studies

Students complete 12 semester hours including a course in philosophy and a course in religious studies as part of the CAP First-Year Humanities Commons requirement, and two additional CAP Advanced Studies approved courses in philosophy and/or religious studies.

History

Students complete 6 semester hours including a course as part of the CAP First-Year Humanities Commons and one additional CAP Advanced Studies approved course in historical study.

Literature

Students complete 3 semester hours in literature selected from a list of approved courses.¹ Courses approved for CAP may satisfy this component where applicable.

Creative and Performing Arts

Students complete 3 semester hours in theory, appreciation or history of art and design, music or theater selected from a list of approved courses; or complete 3 semester hours in production and performance selected from a list of approved courses.² Courses approved for CAP may satisfy this component where applicable. Courses approved for CAP may satisfy this component where applicable.

L2 Proficiency:

(Proficiency in a language other than English) Students demonstrate basic practical communication in a language other than English in one of three ways:

1. Students may choose to demonstrate proficiency equivalent to the completion of the 201 level by examination (zero semester hours).
or
2. Students may choose to demonstrate proficiency equivalent to the completion of the 141 level by examination, and one of the following four sub-options matching the language course at the 141 level (zero to three semester hours):
 - a. 201 level language course
 - b. Approved study abroad/intercultural experience
 - c. Approved service learning experience
 - d. Approved Contextual Course taught in English.³
 or
3. Students may choose to demonstrate proficiency by completion of a language course at the 141 level and any necessary prerequisites,

and one of the following four sub-options matching the language course at the 141 level (four to eleven semester hours):

- a. 201 level language course
- b. Approved study abroad/intercultural experience
- c. Approved service learning experience
- d. Approved Contextual Course taught in English.³

No credit is awarded through the proficiency examination. The range of semester hours to complete the L2 requirement in Arabic, Chinese and Hindi is zero to twelve.

Social Sciences

Students complete 12 semester hours including one course at the introductory level:

ANT 150	Cultural Anthropology	3
ECO 203	Principles of Microeconomics	3
POL 201	The American Political System	3
or POL 202	Introduction to Comparative Politics	
or POL 214	Introduction to International Politics	
PSY 101	Introductory Psychology	3
SOC 101	Principles of Sociology	3
or SOC 204	Modern Social Problems	

One course at the 300-400 level in one of the disciplines in which an introductory course was taken, one additional course from any of the traditional disciplines or from the list of courses approved for social science, and SSC 200 Social Science Integrated. (Students pursuing a dual-degree in teacher education may apply two approved EDT courses from the School of Education and Health Sciences.).

Mathematics

Students complete 3 semester hours selected from courses in the Department of Mathematics (MTH 205 excluded). CAP mathematics completes the requirement.

Natural Sciences

Students complete a sequence of 3 lecture courses with 2 accompanying laboratories in the Integrated Natural Science Sequence for a total of 11 semester hours. Students who wish to do more advanced study in science may complete 9 semester hours in science courses approved for majors in the departments of biology, chemistry, geology, and physics and 2 semester hours of accompanying laboratories in lieu of the Integrated Natural Science Sequence. CAP natural science may be included in the 11 semester hours.

¹ Courses for Literature are as follows:

CLA 350	Classical Literature in Translation	3
ENG 151	Introduction to Literature	3
ENG 203	Major British Writers	3
ENG 204	Major American Writers	3
ENG 205	Major World Writers	3
ENG 210	Poetry	3
ENG 230	Topics in Literature	1-6
ENG 301	Survey of Early English Literature	3
ENG 302	Survey of Later British Literature	3
ENG 305	Survey of American Literature	3
ENG 306	Survey of Continental Literature	3
ENG 317	Contemporary Poetry	3

ENG 353	Literature of the Renaissance	3
ENG 407	Medieval English Literature	3
HST 383	History of the Caribbean	3
POL 320	Comparative Politics: Western Europe	3
THR 425	Theatre Theory & History	3
German (GER)		
ANT 315	Language & Culture	3
CMS 316	Intercultural Communication	3
CMS 414	Global Communication	3
POL 320	Comparative Politics: Western Europe	3
THR 425	Theatre Theory & History	3
Hindi (HND)		
ANT 315	Language & Culture	3
CMS 316	Intercultural Communication	3
CMS 414	Global Communication	3
HST 356	Comparative History of Women in the Third World	3
Italian (ITA)		
ANT 315	Language & Culture	3
CMS 316	Intercultural Communication	3
CMS 414	Global Communication	3
ENG 353	Literature of the Renaissance	3
VAH 450	Italian Renaissance Art	3
Latin (LAT)		
HST 220	Survey of Ancient History	3
HST 303	History of the Roman Republic & Empire	3
PHL 351	Jewish, Christian, and Islamic Philosophy	3
THR 425	Theatre Theory & History	3
Russian (RUS)		
ANT 315	Language & Culture	3
CMS 316	Intercultural Communication	3
CMS 414	Global Communication	3
HST 326	Russia, The Soviet Union & Beyond 1860-Present	3
POL 321	Comparative Politics: Russia & the New States	3
Spanish (SPN)		
ANT 315	Language & Culture	3
ANT 352	Cultures of Latin America	3
ANT 368	Immigration & Immigrants	3
CMS 316	Intercultural Communication	3
CMS 414	Global Communication	3
ENG 360	US Latina/Latino Literature	3
HST 357	Modern Latin America	3
HST 358	Social & Cultural History of Latin America	3
HST 382	History of Mexico	3
HST 383	History of the Caribbean	3
HST 384	Economic History of Latin America	3
PHL 379	Latin American Philosophy	3
SOC 368	Immigration & Immigrants	3
VAH 320	Latin American Art	3

General Requirements for all Bachelor of Science Programs

A minimum of 120 semester hours of approved coursework must be presented for the B.S. For limitations on credit and restrictions on courses, consult the chairperson or the dean. For departmental or program requirements, consult program schedules or the department chairperson or program director.

Major Concentration (with at least 24 semester hours at 300-400 level).	30-60
Breadth Requirement (See Distribution Table below.)	44-50
Program Requirements and General Electives: Electives should be approved by the chairperson or dean since some restrictions exist.	10-40
Common Academic Program (CAP): These courses may also be counted for other requirements where applicable including Major Concentration, Breadth Requirement, Program Requirements and General Electives	43-61

Distribution Table for Breadth Requirements

Courses taken to fulfill the breadth requirement should be external to the major concentration. Students electing courses in any department should be aware that some introductory or background knowledge may be expected of them even when no specific prerequisite course is listed.

Natural Sciences: Selected from Biology, Chemistry, Geology, and Physics courses with accompanying laboratories. (Includes 7 hours CAP Natural Science.)	8
Mathematics, Computer Science: At least 3 semester hours must be in Mathematics, the course(s) to be determined by placement and major program. (Includes 3 hours of CAP Mathematics and College of Arts and Sciences Mathematics Competency.)	6
Social and Behavioral Sciences: Anthropology, Economics, Political Science, Psychology, Sociology. Up to 3 of the 6 semester hours of social and behavioral sciences may, with the approval of the chairperson of the major department or the director of the program, be taken in applied social and professional studies: Criminal Justice Studies, Education, Management, Marketing, Military Science, Social Work, and appropriate courses in ASI, AMS, and CMS. (Includes 3 hours CAP Social Science.)	6
Humanities: American Studies, Communication, English, History, Humanities Studies, Languages, Music, Philosophy, Religious Studies, Visual Arts, and, with the approval of the chairperson of the major department or director of the program, appropriate courses in ASI. (The CAP First-Year Humanities Commons, Second-Year Writing, and Oral Communication courses do not fulfill this requirement.)	9
Philosophy and Religious Studies	12
College of Arts and Sciences' Composition and Oral Communication Competencies: Each student should demonstrate competence in composition, and oral communication. This competence may be demonstrated through coursework, or advanced standing. Please refer to the Catalog section: College of Arts and Sciences – Degree Requirements.	3-9

Internship Program

The Internship Program is an educational work experience with an outside agency, in which a full-time student registers for on-the-job work performed without direct supervision by academic personnel. Such work can be performed in a variety of areas; however, the general purpose of all

internships is to serve as transition between the world of study and the world of work.

Normally, a departmental internship director or another designated faculty member will make all contacts with prospective agencies for placing students as interns. While students themselves may initiate contacts at possible sites, all sites must be ruled acceptable by the director before an internship may begin.

In order to accomplish the general purpose of an internship, the student must adhere to the following requirements:

- To be eligible for an internship, a student must be in good standing at the University of Dayton and have successfully completed course work in areas appropriate to the internship sought.
- An intern may receive no more than six semester hours of credit in any semester for internship.
- No more than twelve semester hours of work experience credit in any kind of internship or work experience program can be accepted toward a baccalaureate degree.
- The student intern will submit a daily log and a written report to the internship director at the conclusion of the internship.

Other procedures and requirements in addition to those mandated by the College may be imposed by departments for individual programs to meet the specific nature of a given internship.

Interested students should see the internship directors in their respective departments for further details.

L2 Entrance Requirement

Any student admitted to the College of Arts and Sciences must have had two years of high school study of a language other than English (L2) or make up the deficit at the University. The deficit may be made up by successful completion of one of the following courses or the equivalent:

ARA 141	Basic Proficiency in Arabic II	4
CHI 141	Basic Proficiency in Mandarin Chinese II	4
FRN 141	Basic Proficiency in French II	4
GER 141	Basic Proficiency in German II	4
ITA 141	Basic Proficiency in Italian	4
LAT 141	Basic Proficiency in Latin II	4
RUS 141	Basic Proficiency in Russian II	4
SPN 141	Basic Proficiency in Spanish II	4

Proficiency in L2

The College of Arts and Sciences strongly encourages its students to acquire the highest level of L2 proficiency. Students may show proficiency by demonstration of basic practical communicative competence in a language other than English. Proficiency for modern languages includes the following four skills:

- **Speaking:** Ability to handle successfully a limited number of interactive, task-oriented, and social situations. Can ask and answer questions, initiate and respond to simple statements, and maintain face-to-face conversation, although with hesitancy and linguistic inaccuracies. Speech is generally understood by native speakers used to interacting with language learners.
- **Writing:** Ability to write simple messages and descriptions on familiar topics, to provide biographical information, and to express interests and preferences by recombining learned vocabulary and structures.

Some effort may be required from native speakers to understand the written messages.

- **Listening:** Comprehension of main idea and some supporting detail in passages of up to 250 words of everyday speech on familiar topics in a context that provides significant support for the message.
- **Reading:** Comprehension of main idea and supporting detail in contextualized written passages of up to 600 words in which a generally familiar, everyday topic is discussed.

Students entering the University have the opportunity to demonstrate the defined levels of proficiency by passing a University placement/proficiency examination. Any student who has not achieved proficiency as determined by this examination upon entry can choose from the following options to reach proficiency:

- course work at the University of Dayton
- course work elsewhere
- an individual study program
- study abroad
- an immersion experience

The Department of Global Languages and Cultures offers the following possible sequences of language courses:

- **Basic Proficiency**
For students who have never studied the language previously or who demonstrate no functional ability: 101-141 (8 sem. hrs.) in Arabic, Chinese, French, German, Italian, Latin, Russian and Spanish.
- **Accelerated sequence**
For students with previous language study or experience who demonstrate some functional ability on the placement/proficiency examination: 131-141 (6 sem. hrs.) available in French, German, Latin and Spanish.
- **Capstone course (201)**
For students with significant language study or experience: (4 sem. hrs.) available in all languages.

Students choosing to complete the Liberal Studies Curriculum using Latin as their language will be required to demonstrate proficiency in reading and translation only.

Students whose first language is not English demonstrate L2 proficiency by satisfying the University Common Academic Program requirements in composition and oral communication. Students whose first language is not English are not permitted to complete courses in their primary language except by permission of the Chair of the Department of Global Languages and Cultures.

Summary of Requirements for the B.A.

Major	30-45
Liberal Studies Curriculum ¹	
Philosophy and Religious Studies	12
History	6
Literature	3
Creative and Performing Arts	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Social Sciences	12
Mathematics	3

Natural Sciences	11
English Composition and Oral Communication	3-9
Introduction to the University	0-1
Electives to total 124 hours	

¹ For specifics of the requirement, please refer to the Catalog section: College of Arts and Sciences - General Requirements for all Bachelor of Arts Programs.

Teacher Licensure for Students in Bachelor of Arts and Bachelor of Science

B.A. or B.S. and B.S.E.

Students earning a Bachelor of Arts or Bachelor of Science Degree in the College of Arts and Sciences who also wish to complete the requirements for a teaching license in the state of Ohio may do this by also completing the requirements for the Bachelor of Science in Education and Health Sciences Degree. The dual degree option requires students to complete all course and academic requirements, including specific minimum grade point average requirements, in both academic units. Some overlap of degree requirements may exist and students are encouraged to meet with an advisor to obtain a clear understanding of the total academic work needed for the dual degree option. For a full description of the requirements for the teacher licensure programs in the Department of Teacher Education section.

Programs of Study

To learn more about the available programs in the College of Arts and Sciences, explore the departments:

- Africana Studies (p. 107)
- Air Force Aerospace Studies ROTC (p. 108)
- American Studies (p. 109)
- Art and Design (p. 112)
- Asian Studies (p. 128)
- Biology (p. 129)
- Chemistry (p. 138)
- Communication (p. 147)
- Computer Science (p. 153)
- Criminal Justice Studies (p. 159)
- Economics (p. 164)
- English (p. 167)
- Family Development (p. 176)
- Film Studies (p. 177)
- General Studies (p. 177)
- Geology (p. 178)
- Global Languages and Cultures (p. 184)
- History (p. 196)
- International Studies (p. 203)
- Marianist Social Transformation (p. 207)
- Mathematics (p. 208)
- Military Science ROTC (p. 215)

- Music (p. 217)
- Philosophy (p. 240)
- Physics (p. 246)
- Political Science (p. 252)
- Prelaw (p. 259)
- Premedicine/ Predentistry (p. 260)
- Psychology (p. 265)
- Religious Studies (p. 270)
- Sociology, Anthropology, and Social Work (p. 277)
- Sustainability, Energy, and Environment (p. 284)
- Theatre, Dance and Performance Technology (p. 285)
- Women's and Gender Studies (p. 290)

Africana Studies

The Africana studies minor offers an interdisciplinary approach to the study of the peoples of Africa and African descendants in the Americas, Africa, and throughout the diaspora. Through its courses, the minor encourages service at the local, national, and international level. The minor prepares distinctive graduates to develop and use analytical skills and approaches to understand historical and contemporary issues associated with the experience of Africans and African descendants. The minor is interdisciplinary and structured to incorporate teaching and research methodologies and materials from disciplines in the College of Arts and Sciences and other schools throughout the University.

The Africana studies minor requires 15 semester hours. It must include one approved "Special Topics" or "Independent Study" course from an appropriate discipline and 12 semester hours in upper division courses (300-level or above) from a minimum of three different disciplines.

Africana Studies Committee

Julius A. Amin (History), Coordinator
Cox (Music), James (Philosophy)

Minor in Africana Studies (AFS)

Africana Studies

Select four courses from at least three different disciplines:	12
EDT 340	Educating Diverse Student Populations in Inclusive Settings
ENG 335	African American Literature
HST 336	History of Africa I: Pre-history to the 19th Century
HST 337	History of Africa - 19th Century to the Present
HST 383	History of the Caribbean
HST 385	The Atlantic World, 1492-1800
HST 398	African American History before 1877
HST 399	History of Blacks in the United States Since 1900
HST 488	Seminar in African History
MUS 305	African-American Sacred Music
MUS 306	History of American Jazz
MUS 390	Ensembles
PHL 363	African Philosophy
PHL 364	Race, Gender and Philosophy
REL 329	African-American Religion
SOC 328	Racial & Ethnic Relations

Select one special topics course from:

3

MUS 360 Special Topics in Music

REL 492 Special Topics

VAH 490 Special Problems

Special topics or independent studies course approved by committee

Total Hours

15

Air Force Aerospace Studies, ROTC (AES)

As a University of Dayton (UD) student you have the opportunity to become an Air Force officer through a cooperative agreement with Wright State University's (WSU) Department of Aerospace Studies. WSU is the home of Detachment 643 and the host site for local colleges and universities to provide the AFROTC program to full-time students pursuing a baccalaureate degree. Although you'll register for ROTC through UD, all courses are typically taught at WSU. UD provides transportation.

The AFROTC program is designed to produce Air Force officers who will be successful leaders and managers. All officers are placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The AFROTC program is organized in two portions: the General Military Course (GMC), typically taken during first- and sophomore years, and the Professional Officer Course (POC), usually taken during junior and senior years or during the last two years prior to graduation. A corresponding Leadership Laboratory for each year, where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies, is also required. For more information on ROTC course descriptions, please visit <https://www.wright.edu/air-force-rotc/cadet-life/rotc-classes>.

- The GMC is a no-obligation introduction to the Air Force. The course covers the Foundations of the United States Air Force (USAF) and the Evolution of USAF and Space Power.
- The POC curriculum covers communicative skills, Air Force Leadership Studies, National Security Affairs and Preparation for Active Duty.

Although the program is open to all majors, selection to the POC is very competitive and depends on your performance. All AFROTC students have the opportunity to apply for scholarships that pay partial or full tuition, books and charges, plus a monthly stipend (stipend amount depends on your progress in the program). These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. Scholarships with the greatest availability are in the areas of engineering, mathematics, computer science and physics. High school students should apply for a scholarship no later than December 1st of their senior year. Apply at <https://www.afrotc.com/>. In-college students will apply for scholarships through their AFROTC instructor. If you are a first-year or sophomore seeking a challenge and want to serve your country, sign up for the Aerospace Studies 121 course.

For further information about AFROTC at UD, students should contact:

The Department of Aerospace Studies
Wright State University
Dayton, Ohio 45435

Phone: 937-775-2730

Email: afrotc@wright.eduWebsite: <http://www.wright.edu/air-force-rotc>

or

The University of Dayton Admission Office

Phone: 937-229-1000

E-mail: info@udayton.edu

Courses

AES 120. General Military Course (GMC), Leadership Laboratory. 0 Hours

Applied Air Force Reserve Officer Training Corps (AFROTC) training. This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet led, cadre supervised Lab environment. Requires participation in two weekly physical training sessions. Taken concurrently with 100-level AES courses. (Pass/Fail).

AES 121. Foundations of the United States Air Force I. 1 Hour

This is a survey course designed to introduce students to the United States Air Force and provide an overview of the basic characteristics, missions, and organization of the Air Force. Corequisite(s): AES 120.

AES 122. Foundations of the United States Air Force II. 1 Hour

This is a continuation of AES 121. It is a survey course designed to introduce students to the United States Air Force and provide an overview of the basic characteristics, missions, and organization of the Air Force. Corequisite(s): AES 120.

AES 130. General Military Course Leadership Lab. 0 Hours

Applied Air Force Reserve Officer Training Corps (AFROTC) training. This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet led, cadre supervised Lab environment. Requires participation in two weekly physical training sessions. Taken concurrently with 100-level AES courses. (Pass/Fail). Prerequisite(s): AES 120.

AES 220. Field Training Preparation (FTP) Leadership Laboratory. 0 Hours

Applied Air Force Reserve Officer Training Corps (AFROTC) training. This lab further develops skills and concepts introduced in the General Military Course Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of upcoming Field Training summer program. Training is cadet led where students will display their ability to apply Air Force concepts and procedures. Requires participation in two weekly physical training sessions. Taken concurrently with 200-level AES courses. (Pass/Fail).

AES 221. Evolution of USAF Air and Space Power I. 1 Hour

This course features topics on Air Force heritage and leaders; introduction to air and space power through examination of distinctive capabilities and functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air and space power and to motivate sophomore students to transition from AFROTC cadet to Air Force ROTC officer candidate. Corequisite(s): AES 220.

AES 222. Evolution of USAF Air and Space Power II. 1 Hour

This course is a continuation of AES 221 and features topics on Air Force heritage and leaders; introduction to air and space power through examination of distinctive capabilities and functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air and space power and to motivate sophomore students to transition from AFROTC cadet to Air Force ROTC officer candidate. Corequisite(s): AES 220.

AES 230. Field Training Preparation (FTP) Leadership Lab. 0 Hours

Applied Air Force Reserve Officer Training Corps (AFROTC) training. This lab further develops skills and concepts introduced in the General Military Course Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of upcoming Field Training summer program. Training is cadet led where students will display their ability to apply Air Force concepts and procedures. Requires participation in two weekly physical training sessions. Taken concurrently with 200-level AES courses. (Pass/Fail). Prerequisite(s): AES 220.

AES 270. Extended GMC Leadership Laboratory I. 0 Hours

Extended GMC Leadership Laboratory – For cadets who have met the requirements of GMC but have not yet completed Field Training.

AES 280. Extended GMC Leadership Lab II. 0 Hours

Extended GMC Leadership Laboratory – For cadets who have met the requirements of GMC but have not yet completed Field Training. Prerequisite(s): AES 270.

AES 322. Air Force Leadership Studies I. 3 Hours

Air Force Leadership Studies.

AES 330. Intermediate Cadet Leadership (ICL) Laboratory: Applied Air Force ROTC Training. 0 Hours

The ICL lab builds the foundation of leadership skills required as an Air Force Officer. Cadets apply leadership/management concepts learned in Field Training and previous aerospace studies classes and labs to assist in training the General Military Course cadets. Requires participation in two weekly physical training sessions. Taken concurrently with 300-level AES courses. (Pass/Fail).

AES 331. United States Air Force Leadership Studies I. 3 Hours

This course teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. Prerequisite(s): AES 330.

AES 332. United States Air Force Leadership Studies II. 3 Hours

Air Force Leadership Studies.

AES 340. Intermediate Cadet Leadership (ICL) Leadership Lab. 0 Hours

The ICL lab builds the foundation of leadership skills required as an Air Force Officer. Cadets apply leadership/management concepts learned in Field Training and previous aerospace studies classes and labs to assist in training the General Military Course cadets. Requires participation in two weekly physical training sessions. Taken concurrently with 300-level AES courses. (Pass/Fail). Prerequisite(s): AES 330.

AES 430. Senior Cadet Leadership (SCL) Laboratory: Applied Air Force ROTC Training. 0 Hours

This lab prepares students for progression into active duty life. As in the Intermediate Cadet Leadership Lab, students take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals learned in previous courses and labs to a level commensurate to entry into the active duty Air Force. Requires participation in two weekly physical training sessions. Taken concurrently with 400-level AES courses. (Pass/Fail).

AES 431. National Security Affairs/Preparation for Active Duty I. 3 Hours

This course is designed to give college seniors the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. Corequisite(s): AES 430.

AES 432. National Security Affairs/Preparation for Active Duty II. 3 Hours

This course is a continuation of AES 431 and is designed to give college seniors the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. Corequisite(s): AES 430.

AES 440. Senior Cadet Leadership (SCL) Applied Air Force Training. 0 Hours

Applied Air Force Training.

AES 470. Extended POC Leadership Laboratory I. 0 Hours

POC Leadership Laboratory – For cadets who have met all requirements for Air Force ROTC but have not yet completed their baccalaureate degree.

AES 480. Extended POC Leadership Lab II. 0 Hours

POC Leadership Laboratory – For cadets who have met all requirements for Air Force ROTC but have not yet completed their baccalaureate degree.

American Studies

- Bachelor of Arts, American Studies (p. 109)

In this interdisciplinary program, students take courses in their choice of 11 fields, thereby learning the skills of integrating, coordinating, and making connections. The program, one of over 300 nationwide, is most appropriate for those whose interests encompass several traditional majors.

American Studies Committee

Danielle M. Poe (Office of the Dean), Interim Program Director

Bachelor of Arts, American Studies (AMS) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7

Crossing Boundaries	variabl credit	ENG 380	Studies in Literature ²
		ENG 383	Tragic Dilemma ²
Faith Traditions		ENG 451	American Romanticism
Practical Ethical Action		ENG 453	American Realism & Naturalism
Inquiry		ENG 455	20th Century American Literature
Integrative		ENG 468	Introduction to Linguistics
Advanced Study	variabl credit	ENG 490	Research Seminar-Literature ²
Philosophy and/or Religious Studies		MUS 304	The Practice of American Music
Historical Studies		MUS 305	African-American Sacred Music
Diversity and Social Justice	3	MUS 306	History of American Jazz
Major Capstone	0-3	MUS 307	Development of American Popular Song
		MUS 327	Music in Film
		MUS 328	History of the American Musical
		MUS 404	Twentieth-Century Music ²
		VAH 370	American Art
		VAH 480	Modernisms in Art
		VAH 482	History of Photography II
		VAH 483	PostColonial and Global Art Histories
		VAH 490	Special Problems ²
		Group B	
		(May include CAP Advanced Study in History, Philosophy and Religious Studies)	
		HST 342	Environmental History of the Americas
		HST 344	History of Science, Technology & the Modern Corporation
		HST 346	History of American Aviation
		HST 347	Sex, Race & Science
		HST 351	American Gender & Women's History
		HST 352	Family History
		HST 355	American Urban History
		HST 360	U.S. Legal & Constitutional History I
		HST 361	U.S. Legal & Constitutional History II
		HST 365	American Films as History
		HST 369	Civil War & Reconstruction
		HST 370	Economic & Business History of the United States
		HST 372	History of Religion in America
		HST 373	American Military History
		HST 374	Ireland & America
		HST 375	History of US Foreign Relations Since 1750
		HST 376	Social & Cultural History of the United States
		HST 377	Contemporary American History
		HST 378	Immigration History
		HST 380	Native American History
		HST 385	The Atlantic World, 1492-1800
		HST 391	American Architectural History & Preservation
		HST 398	African American History before 1877
		HST 399	History of Blacks in the United States Since 1900
		HST 490	Seminar in Histography
		HST 495	Internship
		HST 499	Topics in History ²
		PHL 307	Philosophy and Feminist Thought
		PHL 310	Social Philosophy
Liberal Studies Curriculum			
Creative and Performing Arts (May include CAP Arts)	3		
L2 Proficiency (Proficiency in a language other than English)	0-11		
Literature (May include CAP Components)	3		
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3		
Natural Sciences (Satisfies CAP Natural Science)	11		
Social Sciences (Includes CAP Social Science)	12		
Major Requirements	48		
AMS 300 American Cultures	3		
AMS 301 Interpretations of American Culture	3		
AMS 400 Interdisciplinary Research	3		
AMS 480 American Studies Capstone (Satisfies CAP Major Capstone) ¹	0		
First Area Courses:			
Select five courses from either group A, B, or C	15		
Select three supporting courses from the elected discipline	9		
Second Area Courses:			
Select three courses from one of the two remaining groups	9		
Third Area Courses:			
Select two courses from the remaining group	6		
Groups:			
Group A			
(May include CAP Arts)			
ENG 305 Survey of American Literature			
ENG 317 Contemporary Poetry ²			
ENG 319 Contemporary Fiction ²			
ENG 320 Studies in Drama ²			
ENG 325 Science Fiction			
ENG 327 Studies in Popular Fiction			
ENG 329 Short Story ²			
ENG 331 Studies in Film ²			
ENG 332 Studies in Literature & Film ²			
ENG 335 African American Literature			
ENG 337 Studies in Folklore			
ENG 339 American Indian Literature			

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

PHL 311	Philosophy of Religion
PHL 314	Philosophy of Law
PHL 317	Ethics of War
PHL 318	Family Ethics
PHL 320	Philosophy of Art
PHL 323	Philosophy & Literature
PHL 331	Science, Objectivity & Values
PHL 332	Technology & Values
PHL 340	Special Problems in Philosophy ²
PHL 361	Philosophies of Change in U.S. History
REL 326	Protestant Christianity
REL 327	United States Religious Experience
REL 328	United States Catholic Experience
REL 364	Current Moral Issues
REL 367	Christian Ethics & Health Care Issues
REL 372	Religion & Film
REL 373	Religion & Literature
REL 375	Religion & Science
REL 376	Theology & the Social Sciences
REL 485	Lay Ministry
Group C	
(May include CAP Components)	
ANT 315	Language & Culture
ANT 335	Urban Anthropology
ANT 449	Anthropological Field Work
ECO 346	Intermediate Microeconomic Analysis
ECO 347	Intermediate Macroeconomic Analysis
ECO 390	Antitrust Economics
ECO 435	Economics of the Environment
ECO 441	Econometrics
ECO 442	Money & Banking
ECO 445	Public Finance
ECO 460	Economic Development & Growth
ECO 461	International Economics
ECO 471	Labor Economics
ECO 485	Urban & Regional Economics
POL 301	The American Judicial Process
POL 303	State & Local Government
POL 310	Political Parties, Campaigns & Elections
POL 311	Public Opinion & Political Behavior
POL 313	The American Presidency
POL 314	Interest Group Politics
POL 316	American Political Thought
POL 335	United States National Security Policy
POL 350	Legislative Politics
POL 360	Urban Politics & Policy
POL 408	American Foreign Policy
POL 411	Constitutional Law
POL 413	The Politics of Bureaucracy & Regulation
POL 450	Civil Liberties
PSY 334	Industrial Psychology
PSY 341	Social Psychology

PSY 351	Child Psychology
PSY 361	Personality
PSY 363	Abnormal Psychology
PSY 443	Women, Gender, and Psychology
PSY 461	Current Implications of Drug Dependency
PSY 462	Human Sexuality
PSY 471	History of Psychology
SOC 321	The Sociology of Work & Occupations
SOC 328	Racial & Ethnic Relations
SOC 337	Political Sociology
SOC 339	Social Inequality
SOC 341	Self & Society
SOC 343	Mass Communication in Modern Society
SOC 351	Urban Sociology
SOC 352	Community
SOC 435	Sociology of Globalization

¹ With permission of the Program Director, a capstone in another major can fulfill the AMS major capstone requirement.

² This course can be counted only when the material is appropriate to American Studies. Consult the program director.

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

First Year

Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
REL 103 (CAP Humanities Commons)	3 HST 103 (CAP Humanities Commons)	3
PSY 101 (Social Science - intro level)	3 PHL 103 (CAP Humanities Commons)	3
MTH 114 (Satisfies CAP Mathematics)	3 INSS (CAP Natural Science w/ lab)	4
CMM 100 (CAP Communication)	3 Language 141	4
Language 101	4	
	<hr/>	
	17	17

Second Year

Fall	Hours Spring	Hours
AMS 300	3 ENG 200 (CAP Writing Seminar)	3
CAP Arts / Creative and Performing	3 PSY 300 or 400 level	3
INSS (CAP Natural Science w/lab)	4 AMS 301	3
Social Science - elective	3 INSS Natural Science	3
Language contextual course	3 Literature	3
	<hr/>	
	16	15

Third Year		
Fall	Hours Spring	Hours
Option 1 - A1	3 Option 1 - A4	3
Option 1 - A2	3 Option 1 -A5	3
CAP Faith Traditions	3 CAP Advanced Philosophy/ Religious Studies	3
SSC 200 (CAP Social Science)	3 CAP Inquiry	3
Option 1 - A3	3 CAP Advanced Historical Studies	3
	15	15
Fourth Year		
Fall	Hours Spring	Hours
Option 1 - B1	3 AMS 400	3
Option 1 -B2	3 AMS 480 (Satisfies CAP Major Capstone)	0
Option 1 - C1	4 CAP Practical Ethical Action	3
CAP Integrative	3 CAP Diversity and Social Justice	3
CAP Advanced Philosophy/Religious Studies	3 Option 1 - B3 Option 1 -C2	3 3
	16	15

Total credit hours: 126

Courses

AMS 300. American Cultures. 3 Hours

Study of American artifacts to discern how they indicate the periods in the life of the civilization and how like artifacts can be used to determine the stages of development of various peoples. (Will not satisfy humanities breadth requirement.)

AMS 301. Interpretations of American Culture. 3 Hours

Critical study of various interpretations of American culture through more than a hundred years.

AMS 400. Interdisciplinary Research. 3 Hours

Study of the principles of interdisciplinary scholarship; what can and probably cannot be accomplished by it; successful interdisciplinary accomplishments. Students will complete interdisciplinary projects.

AMS 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

AMS 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

AMS 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

AMS 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

AMS 480. American Studies Capstone. 0 Hours

Project and presentation in the scholarship, activity, or practice related to American Studies. Students will present their work in an appropriate forum. Prerequisite(s): Senior Standing.

Art and Design

Majors:

- Bachelor of Arts, Art History (p. 114)
- Bachelor of Arts, Visual Arts (p. 114)
- Bachelor of Fine Arts, Art Education (p. 115)
- Bachelor of Fine Arts, Fine Arts (p. 116)
- Bachelor of Fine Arts, Graphic Design (p. 117)
- Bachelor of Fine Arts, Photography (p. 117)

Minors:

- Art History (p. 118)
- Fine Arts (p. 118)
- Graphic Design (p. 118)
- Photography (p. 118)
- Visual Arts (p. 118)

The Department of Art and Design provides quality education in the areas of art education, art history, fine art studio, photography, visual arts, and graphic design. The Department cultivates high standards for creativity, craft, conceptual understanding, critical analysis, historical scholarship, and pedagogy. Central to these pursuits are the artistic practice and scholarly research of faculty, the dedication of support staff to the department's educational objectives, and engaged teaching, learning, and scholarship. The Department of Art and Design is a thriving learning community grounded in the Marianist tradition of educating the

whole person. It is fully integrated with the College and the University and contributes significantly to our institutional commitment to excellence.

The department offers the following degrees:

Bachelor of Arts Degree (B.A.)

The Bachelor of Arts (B.A.) is intended for those interested in a broad liberal arts education as an overarching part of their chosen major (Art History, Visual Arts). Approximately 40 percent of the degree requirements are taken in the creation and study of visual arts particular to the chosen major. With this degree option it is possible for students to earn a minor, or even a second major, in another university offered discipline. The B.A. degree combines the major specific curriculum with visual arts foundation courses, and the College of Arts and Sciences and University general education requirements referred to as the Common Academic Program (CAP).

Bachelor of Fine Arts Degree (B.F.A.)

The Bachelor of Fine Arts Degree (B.F.A.) is an intensive "professional" program of study specifically tailored to prepare students to enter the field of their chosen major (Art Education, Fine Arts, Photography, Graphic Design) or to continue their studies in graduate school. Approximately 65 percent of the degree requirements are in the creation and study of the visual arts particular to the chosen major. The B.F.A. degree combines the major specific curriculum with visual arts foundation courses, and the College of Arts and Sciences and University general education requirements referred to as the Common Academic Program (CAP).

Majors include:

Bachelor of Arts (B.A.) with a Major in:

- Art History
- Visual Arts

Bachelor of Fine Arts (B.F.A.) with Teacher Licensure:

- Art Education

Bachelor of Fine Arts (B.F.A.) with a Major in:

- Fine Arts
- Graphic Design
- Photography

Program Descriptions:

Art History (HOA)

Art history is the study of art and architecture produced within specific cultural contexts as a manifestation of human creativity and as a valuable form of historical documentation. Students learn to appreciate the fundamental and varied roles that the visual arts have played and continue to play in the lives of people around the globe. Toward this end, students learn how images and objects, identified as art, embody, but also condition and control social, religious, cultural, economic, political, and gender dynamics.

Visual Arts (VAR)

The Bachelor of Arts (B.A.) with a major in Visual Arts is a flexible program that emphasizes a broad liberal arts education with supportive studies in art, design, and art history. This degree offers students a breadth of exploration of all areas making up the Department of Visual Arts. Studio and art history requirements constitute 35 to 40 percent of the Visual Arts B.A. degree. To take advantage of the diverse academic environment that is the University of Dayton, students are encouraged to earn a minor or a second major within another discipline. Students may not obtain a dual-degree in Visual Arts and the following: Fine Arts

(ART), Graphic Design (GDN), or Photography (PHO). It is permitted to double major in Visual Arts and Art History. In this case, the maximum of 12 semester hours of VAH courses allowed in the Visual Arts major may double count.

Art Education (FAE)

The Bachelor of Fine Arts with Teacher Licensure, a B.F.A. (E11A) program, offers students expertise in studio practice, art history, aesthetics, and critical analysis of art. Field experience in the Dayton area allows students to transform theoretical knowledge into classroom practice. Graduates are well prepared for teaching positions in public or private schools, prekindergarten through grade 12, as well as for master's degree programs.

Fine Arts (ART)

The Bachelor of Fine Arts (B.F.A.) with a major in Fine Arts is a professional degree program that provides an intensive, in depth exploration of selected fine art media. Students choose an emphasis in ceramics, drawing, illustration, painting, printmaking, or sculpture.

Graphic Design (GDN)

The Bachelor of Fine Arts (B.F.A.) with a major in Graphic Design is an intensive professional degree program designed to prepare students for careers in graphic and advertising design, electronic media, and related new technologies.

Photography (PHO)

The Bachelor of Fine Arts (B.F.A.) with a major in Photography is a professional degree that provides an intensive, in depth exploration of photographic media.

Art and Design Minors

- A Minor in Art History consists of 18 semester hours. (For majors in Visual Arts, only six semester hours of the minor may double count.)
- A Minor in Visual Arts consists of 21 semester hours. (Not open to majors in Art Education, Fine Arts, Graphic Design or Photography.)
- A Minor in Fine Arts consists of 21 semester hours. (Not open to majors in Visual Arts.)
- A Minor in Graphic Design consists of 24 semester hours. (Not open to majors in Visual Arts.)
- A Minor in Photography consists of 21 semester hours. (Not open to majors in Visual Art.)

Transfer students seeking an Art and Design minor must complete at least nine of the required semester hours in the Department of Art and Design while in residency at the University of Dayton.

Art and Design Foundations

Visual arts foundation courses introduce students to fundamental principles, practices, materials, and vocabulary common to all visual arts disciplines. These courses provide a common background of skill development along with an understanding of primary concepts in the visual arts and a basis for critical evaluation. All foundation courses share the objective of preparing students to face the challenges of their specific disciplines.

Foundations Scholarship Review

During their second year, all Art and Design majors are reviewed by the Art and Design faculty. Participation in the Foundations Scholarship Review is mandatory for all Visual Arts majors. Students must receive a satisfactory review rating before graduating with a visual arts degree. Also included in the review

are first and third year students who have been awarded Art and Design Scholarships. The review process is a valuable learning experience for the student and it helps the faculty to recommend ways in which students may build upon their assets and overcome their liabilities. Monetary awards applied toward future tuition are available to a limited number of students whose performance in the review is judged by the faculty to be outstanding.

Senior Capstone Courses

These courses, required in all majors, bring together the skills, education, ideas, and goals of senior students. They stress an integrated approach to learning and working and they focus on preparing students for their futures beyond the University. They provide a logical continuity that begins with the Art and Design Foundations courses, the Foundations Scholarship Review, and work within the major.

Faculty

Judith Huacuja, Chairperson

Professors Emeriti: Niles, Wilkinson

Professors: Crum, Jones, Phelps, Whitaker

Associate Professors: Clarke, Holscher Almazan, Huacuja, Kwon,

Marcinowski, Matlack-Whitaker, Wilbers

Assistant Professors: Bradshaw, Jennings, Sullivan, Smith, Thomas-Trout

Lecturers: Jones, Kargl, Tsen

Bachelor of Arts, Art History (HOA) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements

VAH 129 Foundations in Art History (Satisfies CAP Arts)	3
VAH 201 Survey of Art I	3
VAH 202 Survey of Art II	3
VAH 203 Survey of Art III	3
VAH 483 PostColonial and Global Art Histories	3
VAH 485 Art History Seminar (Satisfies CAP Major Capstone)	3
VAF 104 Foundation Drawing	3
VAR 299 Second Year Review	0
Select one from:	3
VAF 112 Foundation 2-D Design	
VAF 117 Foundation 3-D Design	
VAP 101 Foundation Photography	
Select six VAH courses (300/400 level)	18
Select one major program elective ¹	3

Breadth

VAR 100 Visual Arts Foundation	1
Total Hours to total at least	124

¹ Major program courses may be chosen, in consultation with an art history advisor, from among the following disciplines and courses: ANT 300, CMM 313, ENG 322, PHL 320, PSY 375 and REL 374.

Alternatives to these courses may be elected with the approval of an art history advisor. Major program electives must be at the 300-400 level (except in the case of Fine Arts courses), and they may not be used to satisfy the liberal studies requirements

Bachelor of Arts, Visual Arts (VAR) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	

Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements 45

VAD 220 Design Processes I	3
VAF 104 Foundation Drawing (Satisfies CAP Arts)	3
VAF 112 Foundation 2-D Design	3
VAF 117 Foundation 3-D Design	3
VAF 216 Design & Color	3
VAP 101 Foundation Photography	3
VAP 201 Photography II	3
or VAP 240 Digital Processes I	
VAR 299 Second Year Review	0
VAR 495 Senior Project Seminar	1
VAR 496 Senior Project, Presentation and Paper (Satisfies CAP Major Capstone)	3
Select one course from: (Satisfies CAP Arts)	3
VAH 201 Survey of Art I	
VAH 202 Survey of Art II	
VAH 203 Survey of Art III	
Select one VAH course (300/400 level)	3
Select five Visual arts courses ¹	14

Breadth

VAR 100 Visual Arts Foundation	1
Total Hours to total at least	124

¹ Nine of the fourteen hours to be selected from at least two of the following: VAD, VAF, VAP, and VAR. Nine of the fourteen hours must be at the 300-400 level.

Bachelor of Fine Arts, Art Education (FAE) minimum 134 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Major Requirements ^{1, 2} 69

VAE 231 Introduction to Art Education	2
VAE 383 Foundation of Art Education	3
VAE 483 Teaching Visual Arts	3
VAF 104 Foundation Drawing (Satisfies CAP Arts)	3
VAF 112 Foundation 2-D Design	3
VAF 117 Foundation 3-D Design	3
VAF 204 Drawing II	3
VAF 216 Design & Color	3
VAF 226 Painting I	3
VAF 232 Sculpture I	3
VAF 240 Ceramics I	3
or VAF 242 Ceramics II	

VAF 253	Printmaking I	3
or VAF 353	Printmaking II	
VAF 304	Drawing III	3
VAE 498	Senior Research and Portfolio (Satisfies CAP Major Capstone)	3
VAE 499	Senior Presentation	1
VAP 101	Foundation Photography	3
VAR 299	Second Year Review	0
Select two courses from:		6
VAH 201	Survey of Art I	
VAH 202	Survey of Art II	
VAH 203	Survey of Art III	
Select one course from:		3
VAH 470	Nineteenth Century Art I	
VAH 471	Nineteenth Century Art II	
VAH 480	Modernisms in Art	
VAH 483	PostColonial and Global Art Histories (Satisfies CAP Integrative, Advanced Historical Studies)	
Select one VAH course		3
Select four VAR courses		12
Education requirements:		27
EDT 110 & 110L	The Profession of Teaching and The Profession of Teaching Laboratory	3
EDT 207 & 207L	Child and Adolescent in Education and Child and Adolescent in Education Laboratory	3
EDT 305	Philosophy and History of American Education (Satisfies CAP Practical Ethical Action, and Advanced Study in Philosophy)	3
EDT 340	Educating Diverse Student Populations in Inclusive Settings (Satisfies CAP Integrative, and Diversity and Social Justice)	3
EDT 340L	Educating Diverse Student Populations in Inclusive Settings Laboratory	0
EDT 459	Critical Reading and Writing in the Content Area	3
EDT 477	Student Teaching- Art P-12	12
Breadth		
VAR 100	Visual Arts Foundation	1
Total Hours to total at least		134

¹ Students in the Art Education program are required to maintain a 2.5 cumulative grade point average overall, and a 2.5 cumulative grade point average in teacher education and visual arts courses.

² In order for the University of Dayton to approve the state of Ohio teaching license application, applicants must have on file passing scores on the state of Ohio licensure tests and have successfully passed the Foundation Review.

Bachelor of Fine Arts, Fine Arts (ART) minimum 132 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	

PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Major Requirements 79

VAF 104	Foundation Drawing (Satisfies CAP Arts)	3
VAF 112	Foundation 2-D Design	3
VAF 117	Foundation 3-D Design	3
VAF 203	Drawing Through the Process	3
VAF 204	Drawing II	3
VAF 216	Design & Color	3
VAF 226	Painting I	3
VAF 232	Sculpture I	3
VAF 240	Ceramics I	3
VAF 253	Printmaking I	3
VAF 326	Painting II	3
VAF 332	Sculpture II	3
VAF 242	Ceramics II	3
VAF 353	Printmaking II	3
VAF 498	Senior/Professional Seminar- Fine Arts	3
VAF 499	Senior Thesis (Satisfies CAP Major Capstone)	1
VAP 101	Foundation Photography	3
VAR 299	Second Year Review	0
VAF emphasis		12
Select two courses from:		6
VAH 201	Survey of Art I	
VAH 202	Survey of Art II	
VAH 203	Survey of Art III	

VAH 483	PostColonial and Global Art Histories	3
Select one VAH courses (300/400 level) (May include CAP Components)		3
Select Visual arts courses		6
Breadth		
VAR 100	Visual Arts Foundation	1
Total Hours to total at least		132

Bachelor of Fine Arts, Graphic Design (GDN) minimum 131 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variab
Faith Traditions		credit
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variab
Philosophy and/or Religious Studies		credit
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Major Requirements		87
VAD 220	Design Processes I	3
VAD 240	Form & Concept	3
VAD 245	Typography I	3
VAD 320	Design Processes II	3
VAD 345	Typography II	3
VAD 360	Web Design	3
VAD 411	Graphic Design I	3

VAD 412	Graphic Design II	3
VAD 415	Graphic Design III	3
VAD 498	Senior/Professional Seminar - Graphic Design	3
VAD 499	Portfolio and Paper - Graphic Design (Satisfies CAP Major Capstone)	3
VAF 104	Foundation Drawing (Satisfies CAP Arts)	3
VAF 112	Foundation 2-D Design	3
VAF 117	Foundation 3-D Design	3
VAF 204	Drawing II	3
VAF 216	Design & Color	3
VAH 383	History of Graphic Design	3
VAP 101	Foundation Photography	3
VAR 299	Second Year Review	0
Select two courses from:		6
VAH 201	Survey of Art I	
VAH 202	Survey of Art II	
VAH 203	Survey of Art III	
Select one fine arts course from:		3
VAF 226	Painting I	
VAF 253	Printmaking I	
VAF 240	Ceramics I	
VAF 242	Ceramics II	
VAF 232	Sculpture I	
VAF 370	Illustration I	
Select one VAH course (300/400 level) (May include CAP Advanced Historical Studies)		3
Select one VAP course		3
Select Visual Arts courses (May include CAP Components)		12
Select two marketing or two communication courses		6

Breadth

VAR 100	Visual Arts Foundation	1
Total Hours to total at least		131

Bachelor of Fine Arts, Photography (PHO) minimum 131 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7

Crossing Boundaries

Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

- ¹ Completed with ASI 110 and ASI 120.
- ² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- ³ Completed with ENG 200H or ASI 120.
- ⁴ Must include two different disciplines and accompanying lab.

Major Requirements 72

VAF 104	Foundation Drawing	3
VAF 112	Foundation 2-D Design	3
VAF 117	Foundation 3-D Design	3
VAF 204	Drawing II	3
VAF 216	Design & Color	3
VAH 382	History of Photography I	3
VAH 480	Modernisms in Art	3
VAH 482	History of Photography II	3
VAP 101	Foundation Photography (Satisfies CAP Arts)	3
VAP 201	Photography II	3
VAP 240	Digital Processes I	3
VAP 302	Color Photography I	3
VAP 410	Advanced Photography	3
VAP 498	Senior/Professional Seminar- Photography	3
VAP 499	Senior Seminar II (Satisfies CAP Major Capstone)	1
VAR 299	Second Year Review	0

Select two courses from: 6

VAP 320	Studio Practice I	
VAP 330	Alternative Photography I	
VAP 340	Digital Processes II	

Select two courses from: 6

VAH 201	Survey of Art I	
VAH 202	Survey of Art II	
VAH 203	Survey of Art III	

Select three VAP courses (300/400 level) 9

Select Visual Arts courses (May include CAP Components) 8

Breadth

VAR 100	Visual Arts Foundation	1
Total Hours to total at least		131

Minor in Art History (HOA)

Art History

Select two courses from:	6
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variable credit	VAH 201	Survey of Art I	
	VAH 202	Survey of Art II	
	VAH 203	Survey of Art III	
Select four VAH courses (300/400 level)			12
Total Hours			18

Minor in Fine Arts (ART)

Fine Arts

VAF 104	Foundation Drawing	3	
VAF 112	Foundation 2-D Design	3	
VAH 201	Survey of Art I	3	
or VAH 202	Survey of Art II		
or VAH 203	Survey of Art III		
Select four VAF courses			12
Total Hours			21

Minor in Graphic Design (GDN)

Graphic Design

VAD 220	Design Processes I	3	
VAD 240	Form & Concept	3	
VAD 245	Typography I	3	
VAD 320	Design Processes II	3	
VAF 112	Foundation 2-D Design	3	
VAF 216	Design & Color	3	
VAH 383	History of Graphic Design	3	
Select one course from:			3
VAD 318	Graphic Design for Three Dimensions		
VAD 345	Typography II		
VAD 360	Web Design		
VAD 395	Advertising Design		
VAD 411	Graphic Design I		
Total Hours			24

Minor in Photography (PHO)

Photography

VAH 382	History of Photography I	3	
VAP 101	Foundation Photography	3	
VAP 201	Photography II	3	
VAP 240	Digital Processes I	3	
Select three VAP courses (300/400 level)			9
Total Hours			21

Minor in Visual Arts (VAR)

Visual Arts

VAD 220	Design Processes I	3
VAF 104	Foundation Drawing	3
VAF 112	Foundation 2-D Design	3
VAH 201	Survey of Art I	3
or VAH 202	Survey of Art II	
or VAH 203	Survey of Art III	
VAP 101	Foundation Photography	3

Select two VAD, VAF, VAP and/or VAR courses	6
Total Hours	21

- Bachelor of Arts, Art History (p. 119)
- Bachelor of Arts, Visual Arts (p. 119)
- Bachelor of Fine Arts, Art Education (p. 120)
- Bachelor of Fine Arts, Fine Arts (p. 120)
- Bachelor of Fine Arts, Graphic Design (p. 121)
- Bachelor of Fine Arts, Photography (p. 121)

VAH 300/400 level	3	CAP Diversity and Social Justice	3
CAP Faith Traditions		3 CAP Religious Studies	3
CAP Advanced Philosophy		3 CAP Inquiry General Elective	3
			2
			14

Total credit hours: 124

Bachelor of Arts, Art History

First Year

Fall	Hours Spring	Hours
VAR 100	1 ASI 120 (CAP Humanities Commons)	8
ASI 110 (CAP Humanities Commons)	7 VAH 201	3
VAH 129 (CAP Arts)	3 VAF 112, 117, or VAP 101	3
VAF 104	3 CMM 100 (CAP Communication)	3
CMM 100 (CAP Communication)	3 or Social Science - intro level	
or Social Science - intro level		
	17	17

Second Year

Fall	Hours Spring	Hours
VAH 202	3 VAH 203	3
VAH 300/400 level	3 VAH 300/400 level	3
SSC 200 (CAP Social Science)	3 Social Science - 300/400 level	3
INSS (CAP Natural Science w/lab)	4 INSS (CAP Natural Science w/lab)	4
Language 101	4 Language 141	4
	17	17

Third Year

Fall	Hours Spring	Hours
VAH 483 (CAP Integrative, Advanced Historical Studies)	3 VAH 300/400	3
VAH 300/400 level	3 Major Program elective	3
VAR 299	0 MTH (CAP Mathematics)	3
Literature	3 Social Science - elective	3
INSS Natural Science	3 CAP Practical Ethical Action	3
Language 201 or contextual course	3	
	15	15

Fourth Year

Fall	Hours Spring	Hours
VAH 300/400 level	3 VAH 485 (Satisfies CAP Major Capstone)	3

Bachelor of Arts, Visual Arts

First Year

Fall	Hours Spring	Hours
VAR 100	1 ENG 100 (CAP Humanities Commons)	3
VAF 104 (CAP Arts)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
VAF 112	3 VAF 117	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 VAF 216	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 VAP 101	3
CMM 100 (CAP Communication)	3	
	16	15

Second Year

Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 VAH 201, 202, or 203	3
VAD 220	3 VAP 201 or 240	3
VAR 299	0 Literature or general elective	3
Visual Arts elective	3 SSC 200 (CAP Social Science)	3
Literature or general elective	3 Language 141	4
Language 101	4	
	16	16

Third Year

Fall	Hours Spring	Hours
VAH 300/400 level	3 Visual Arts elective	3
Visual Arts elective	3 MTH (CAP Mathematics)	3
Social Science - intro level	3 Social Science - 300/400 level	3
INSS (CAP Natural Science w/lab)	4 INSS (CAP Natural Science w/lab)	4
Language 201 or contextual course	3 CAP Adv Historical Studies/ Integrative	3
	16	16

Fourth Year			CAP Natural Science w/ lab (CAP Inquiry)	4
Fall	Hours Spring	Hours		
VAR 495	1 VAR 496 (Satisfies CAP Major Capstone)	3		
Visual Arts elective	3 Visual Arts elective	2		
CAP Adv PHL/REL (Practical Ethical Action / Faith Traditions)	3 CAP Adv PHL/REL (Practical Ethical Action / Faith Traditions)	3		
Social Science - elective	3 CAP Diversity and Social Justice	3		
INSS Natural Science	3 CAP Inquiry	3		
General elective	2			
		15	18	16
Total credit hours: 124				

Bachelor of Fine Arts, Art Education

First Year		
Fall	Hours Spring	Hours
VAR 100	1 EDT 110	3
VAF 104 (CAP Arts)	3 EDT 110L	0
VAF 112	3 VAF 117	3
VAP 101	3 VAF 216	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 ENG 100 (CAP Humanities Commons)	3
	HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
		16
18		
Second Year		
Fall	Hours Spring	Hours
VAF 204	3 VAF 226	3
VAH 201, 202, or 203	3 VAF 253	3
VAF 232	3 EDT 207	3
VAE 231	2 EDT 207L	0
VAR 299	0 VAH 201, 202, or 203	3
ENG 200 (CAP Writing Seminar)	3 CAP Natural Science	3
SSC 200 (CAP Social Science)	3	
		17
15		
Third Year		
Fall	Hours Spring	Hours
VAF 240	3 VAF 304	3
VAH 470 or 471	3 VAE 383	3
EDT 305 (CAP Practical Ethical Action, Adv.Philosophy)	3 VAH 470 or 471	3
MTH (CAP Mathematics)	3 EDT 340 (CAP Integrative, Diversity & Social Justice)	3
Visual Arts elective	6 EDT 340L	0

Fourth Year		
Fall	Hours Spring	Hours
VAE 483	3 EDT 477	12
VAE 498 (Satisfies CAP Major Capstone)	3 Visual Arts elective	3
EDT 459	3 VAE 499	1
VAH 320 or 483 (CAP Advanced Historical Studies)	3	
CAP Faith Traditions, Adv PHL/REL	3	
Visual Arts electives	3	
		18
16		
Total credit hours: 134		

Bachelor of Fine Arts, Fine Arts

First Year		
Fall	Hours Spring	Hours
VAR 100	1 VAF 117	3
VAF 104 (CAP Arts)	3 VAF 204	3
VAF 112	3 VAF 216	3
VAP 101	3 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	
		16
15		
Second Year		
Fall	Hours Spring	Hours
VAH 201, 202, or 203	3 VAF 226 or 232	3
VAF 203	3 VAF 253	3
VAF 226 or 232	3 VAF 326	3
VAR 299	0 VAH 201, 202, or 203	3
ENG 200 (CAP Writing Seminar)	3 CMM 100 (CAP Communication)	3
CAP Natural Science w/lab	4 SSC 200 (CAP Social Science)	3
		16
18		
Third Year		
Fall	Hours Spring	Hours
VAF 332 or 353	3 VAF 332 or 353	3
VAF 498	3 VAH 300/400 elective	3
VAF Emphasis	3 VAF Emphasis	3
VAH 483 (CAP Integrative, Adv. Historical Studies)	3 Visual Arts elective	3
MTH (CAP Mathematics)	3 CAP Natural Science	3
CAP Faith Traditions	3	
		18
15		

Fourth Year

Fall	Hours Spring	Hours
VAF 499 (Satisfies CAP Major Capstone)	1 VAF Emphasis	3
VAF Emphasis	3 Visual Arts elective	3
Visual Arts elective	3 Visual Arts elective	3
CAP Advanced Philosophy/Religious Studies	3 CAP Advanced Philosophy/Religious Studies	3
CAP Inquiry	3 CAP Diversity and Social Justice	3
CAP Practical Ethical Action	3 General elective	3
	16	18

Total credit hours: 132

Bachelor of Fine Arts, Graphic Design**First Year**

Fall	Hours Spring	Hours
VAR 100	1 VAF 117	3
VAF 104 (CAP Arts)	3 VAF 204	3
VAF 112	3 VAF 216	3
VAP 101	3 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	3
	16	15

Second Year

Fall	Hours Spring	Hours
VAD 220	3 VAD 245	3
VAD 240	3 VAF 226, 253, 240, 242, 232, or 370	3
VAH 201, 202, or 203	3 VAH 201, 202, or 203	3
VAP 201, 240, 302, or 330	3 CMM 100 (CAP Communication)	3
VAR 299	0 SSC 200 (CAP Social Science)	3
ENG 200 (CAP Writing Seminar)	3 MTH (CAP Mathematics)	3
	15	18

Third Year

Fall	Hours Spring	Hours
VAD 320	3 VAD 360	3
VAD 345	3 VAD 411	3
VAH 383	3 VAH 300/400	3
Visual Arts Elective	3 MKT/CMM Elective	3

CAP Natural Science w/lab	4 Natural Science (CAP Natural Science / Inquiry)	3
	CAP Advanced Philosophy/Practical Ethical Action	3
	16	18

Fourth Year

Fall	Hours Spring	Hours
VAD 412	3 VAD 499 (Satisfies CAP Major Capstone)	3
VAD 498	3 VAD 415	3
Visual Arts elective	3 Visual Arts elective	3
MKT/CMM elective	3 Visual Arts elective	3
CAP Advanced Religious Studies/Faith Traditions	3 CAP Advanced Historical Studies/Integrative	3
CAP Diversity and Social Justice	3	3
	18	15

Total credit hours: 131

Bachelor of Fine Arts, Photography**First Year**

Fall	Hours Spring	Hours
VAR 100	1 VAF 117	3
VAF 104 (CAP Arts)	3 VAF 216	3
VAF 112	3 VAP 201	3
VAP 101	3 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	3
	16	15

Second Year

Fall	Hours Spring	Hours
VAH 201, 202, or 203	3 VAP 302	3
VAP 240	3 VAH 382	3
Visual Arts elective	3 VAP 320, 330, or 340	3
VAR 299	0 CAP Natural Science	3
ENG 200 (CAP Writing Seminar)	3 SSC 200 (CAP Social Science)	3
CAP Natural Science w/lab	4 CMM 100 (CAP Communication)	3
	16	18

Third Year

Fall	Hours Spring	Hours
VAH 201, 202, or 203	3 VAP 410	3

VAP 320, 330, or 340	3 VAH 482	3
Visual Arts elective	5 VAP elective 300/400 level	3
MTH (CAP Mathematics)	3 CAP Faith Traditions	3
CAP Integrative	3 CAP Practical Ethical Action	3
	17	15
Fourth Year		
Fall	Hours Spring	Hours
VAP 498	3 VAP 499 (Satisfies CAP Major Capstone)	1
VAH 480	3 VAP elective 300/400	3
VAP elective 300/400	3 Visual Arts elective	3
CAP Advanced Philosophy/Religious Studies	3 CAP Advanced Philosophy/ Religious Studies	3
CAP Inquiry	3 CAP Diversity and Social Justice	3
CAP Advanced Historical Studies	3 General elective	3
	18	16

Total credit hours: 131

Visual Arts-Art Education Courses

VAE 101. Early Childhood Art Education. 2 Hours

Acquaints students, especially those seeking Early Childhood Licensure, with the principles and concepts of art and with the various materials and techniques used in artistic expression. Open to all students. Studio fee.

VAE 231. Introduction to Art Education. 2 Hours

An introduction to the pedagogical, philosophical, and psychological aspects of teaching the arts. Topics will include: technology, national and state standards, history, learners with special needs, reading in the arts, and professional associations. Prerequisite(s): EDT 110, EDT 110L. Corequisite(s): Field experience.

VAE 232. Integrating Visual Culture. 3 Hours

Developing knowledge, skills, attitudes and pedagogical approaches to integrating visual culture theory and methodology into classrooms for early childhood, middle childhood and the adolescent learner.

VAE 383. Foundation of Art Education. 3 Hours

Introduction to the philosophy, history, and theory of teaching art to prekindergarten through grade eight students with varied needs and abilities. Art education majors only or permission. Prerequisite(s): EDT 110, EDT 110L, EDT 207, EDT 207L; permission of instructor and department chairperson. Corequisite(s): Field experience.

VAE 483. Teaching Visual Arts. 3 Hours

Study of curriculum, planning, theory, and practice for teaching visual arts to students grades seven through twelve. Art Education majors only. Prerequisite(s): EDT 110, EDT 110L, EDT 207, EDT 207L, EDT 208; VAE 231, VAE 383; permission of instructor and department chairperson. Corequisite(s): EDT 305, EDT 340, EDT 340L, EDT 459.

VAE 483W. Elementary & Secondary School Art. 3 Hours

Workshop to give the student of elementary and secondary education new approaches to teaching studio arts, art criticism, art history, and aesthetics.

VAE 490. Special Problems. 1-6 Hours

Course for advanced individual work in art education. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours. .

VAE 498. Senior Research and Portfolio. 3 Hours

Capstone course to be taken in the first semester of the senior year and is a graduation requirement for the B.F.A. in art education majors. Students further their preparation for vocation in the field of art education by examining three areas within the discipline. Students engage in a self-selected directed research inquiry into contemporary theoretical and pedagogical issues facing the field of art education. Students prepare for licensure assessments and develop the artist component of their teaching portfolio. Prerequisite(s): VAE 383. Corequisite(s): VAE 483.

VAE 499. Senior Presentation. 1 Hour

Individual research refinement, public presentation and defense of the work. Students engage in mock-interview and portfolio presentations in preparation for the job market. Course required for all BFA Art Education majors. Prerequisite(s): VAE 498. Co-requisite(s): EDT 477.

Visual Arts-Art History Courses

VAH 101. Introduction to the Visual Arts. 3 Hours

Thematically-based, non-chronological introduction that covers the fundamental and varied roles that the visual arts have played and continue to play in the human experience. Open to all students.

VAH 129. Foundations in Art History. 3 Hours

An introduction to the conceptual and evaluative practices undertaken in the study of art history, with an introduction to contemporary and global art histories. Students engage in a semester-long investigation of the question "What is art?" by researching diverse artistic practices from a variety of cultures and historical eras. Emphasis is placed on critical engagement with art and the development of a comparative approach to understanding the various roles art plays in society. This course is open to all majors, especially honors students, and is a required course for art history majors.

VAH 201. Survey of Art I. 3 Hours

Survey of Western art from pre-history through the late medieval period. Open to all students.

VAH 202. Survey of Art II. 3 Hours

Survey of Western art from the late medieval period through the Baroque period.

VAH 203. Survey of Art III. 3 Hours

Survey of Western art from the mid-eighteenth to twenty-first centuries.

VAH 310. History of Art and Activism. 3 Hours

This interdisciplinary art history course examines socially engaged art practices that create public dialogue and effect social, cultural and political change. Through lectures, readings, discussion, images, film and guest artists, students engage in dialogue about modern and contemporary art focused on topics related to social justice. The course presents art works that address racial, ethnic and cultural identity, geopolitical diversity, structures that create marginalization, and artistic practices that seek to support human rights and social justice. This course specifically addresses social commentary and civic responsibility as important components of contemporary visual arts.

VAH 320. Latin American Art. 3 Hours

Survey of Latin American art history from the 19th century to the present. Prerequisite(s): HST 103.

VAH 330. Arts of Asia. 3 Hours

Survey of Asian art history from circa 1500 BC to the present. Open to all students.

VAH 350. Western Architecture. 3 Hours

Introduction to the history, theory, and practice of Western architecture from pre-history through the contemporary period. Open to all students.

VAH 360. Art History & Feminism. 3 Hours

Introduction to feminist approaches to art history and women artists from the medieval period to the present. Open to all students.

VAH 370. American Art. 3 Hours

Introduction to American art and architecture from the colonial period to the present. Open to all students.

VAH 382. History of Photography I. 3 Hours

History of the cultural, social, and aesthetic roles of photography from the camera obscura to 1945. Emphasis on the changing practice and perception of the medium. Open to all students.

VAH 383. History of Graphic Design. 3 Hours

Study of the significant developments, movements, and figures in the history of graphic design with an emphasis on the twentieth century. Open to all students.

VAH 450. Italian Renaissance Art. 3 Hours

Introduction to the painting, sculpture, architecture, and material culture of Italy between c. 1300 and c. 1550, with a particular emphasis on the religious, political, and social dimensions of the production, purposes, and reception of art and material culture in the Renaissance.

VAH 460. Baroque Art. 3 Hours

Study of the major painters, sculptors, and architects of the seventeenth century. Prerequisite(s): VAH 202 or permission of instructor and department chairperson.

VAH 470. Nineteenth Century Art I. 3 Hours

Study of the major artists and movements in European art from Neo-Classicism to the beginnings of Realism. Prerequisite(s): VAH 203 or permission of instructor and department chairperson.

VAH 471. Nineteenth Century Art II. 3 Hours

Study of the major artists and movements in European art from Realism through Art Nouveau. Prerequisite(s): VAH 470 or permission of instructor and department chairperson.

VAH 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAH 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

VAH 480. Twentieth Century Art I. 3 Hours

Study of the major movements and artists in the painting, sculpture, architecture, and other media from 1900 to 1945. Open to all students.

VAH 480H. 20th Century Art I. 3 Hours

Study of the major movements and artists in the painting, sculpture, architecture, and other media from 1900 to 1945. Open to all students.

VAH 482. History of Photography II. 3 Hours

The history of photography from 1945 to the present. Examines the medium as a potent force in modern and contemporary culture and as a constantly evolving form of art and tool of communication. Open to all students.

VAH 483. PostColonial and Global Art Histories. 3 Hours

Study of the aesthetic philosophies and visual cultures from different regions of the world 1960 to the present. The course draws together perspectives on global cultures and diverse art histories in order to analyze broad social issues and postmodern cultural movements. Open to all students. Prerequisite(s): HST 103.

VAH 485. Art History Seminar. 3 Hours

Art History Senior Capstone course in which students develop an understanding of the history and methodologies of art history as a discipline. Students complete a senior research paper and give a public presentation of their research that is mentored and reviewed by faculty and peers. Additional emphasis is on the exploration of vocation and career directions arising from the study of art history as an undergraduate major. Specific to this purpose is the development by each student of a professional art historian's portfolio of writings, including a curriculum vitae, a statement of career goals, and a compilation of professional resources. Prerequisite(s): Permission of instructor.

VAH 490. Special Problems. 1-5 Hours

Advanced, independent study with faculty direction in art history. Prerequisite(s): One art history course or permission of instructor and department chairperson.

VAH 490H. Special Problems. 1-5 Hours

Advanced, independent study with faculty direction in art history. Prerequisite(s): One art history course or permission of instructor and department chairperson.

Visual Arts-Fine Arts Courses**VAF 104. Foundation Drawing. 3 Hours**

Introduction to the experience of two-dimensional visual form through the act of observational drawing. The focus is on learning fundamental drawing elements and principles and understanding these elements and principles through visible and consistent practice. Fundamental issues pertaining to the creation of images are understood through a process of selection and an arrangement of visual elements to create a drawing. Drawing materials include pencil, charcoal, conté crayon, and pen and ink.

VAF 112. Foundation 2-D Design. 3 Hours

Study of the underlying elements and principles of design as they are used in two-dimensional composition and the creation of illusionistic three-dimensional space.

VAF 117. Foundation 3-D Design. 3 Hours

Introduction to basic principles and practices of design in three dimensions. Emphasis on current theory and construction techniques using a variety of media and methods.

VAF 203. Drawing Through the Process. 3 Hours

An investigation and examination of the drawing process, of mark making, and experimental practices. An emphasis will be placed on contemporary, conceptual, and creative directions in drawing. Students are exposed to and challenged by a series of studio and research-based problems that test the limitations and hidden opportunities within established drawing habits and conventional practices.

VAF 204. Drawing II. 3 Hours

Emphasis on figure drawing with work from the nude model and the skeleton. Study of proportion, rendering volume, and developing expressive drawing skills in a variety of drawing media. Prerequisite(s): VAF 104.

VAF 216. Design & Color. 3 Hours

The study of color based on historical and contemporary color theories and the use of color in expressing and integrating design concepts. Prerequisite(s): VAF 112 or permission of department chairperson.

VAF 225. Painting for Non-Majors. 3 Hours

Introduction to the history, fundamental principles, materials, tools, and methods of painting, emphasizing the spatial and expressive qualities of color, composition, and pictorial design. Not open to majors or minors in the Department of Visual Arts.

VAF 226. Painting I. 3 Hours

Introduction to the history, fundamental principles, materials, tools, and methods of painting. Prerequisite(s): VAF 104, VAF 112 or by permission.

VAF 228. Watercolor I. 3 Hours

Principles and techniques of transparent watercolor. Emphasis on technical mastery. Prerequisite(s): (VAF 104, VAF 112, VAF 216) or permission of department chairperson.

VAF 230. Anatomy Drawing for Non-Majors. 3 Hours

Drawing course introduces non-art students to drawing the human figure and anatomy. Students will learn observational drawing skills and apply these skills to drawing the human body and anatomy from nude models, the skeleton, and muscle casts and renderings. Students will obtain a background in the art of anatomical drawing and practice.

VAF 232. Sculpture I. 3 Hours

Consideration of forms as a means of developing an understanding of mass, shape, and control of medium. The use of various materials such as wood, plaster, and clay, with emphasis on integrating material with personal expression.

VAF 240. Ceramics I. 3 Hours

Introduction to basic methods of working in clay using coil and slab techniques.

VAF 242. Ceramics II: Wheel Throwing. 3 Hours

Introduction to basic methods of working clay using the wheel.

VAF 253. Printmaking I. 3 Hours

Introduction to the traditional printmaking methods of woodcut and intaglio. Instruction in edition-printing techniques and curating of prints. . Prerequisite(s): (VAF 104, VAF 112) or permission of department chairperson.

VAF 304. Drawing III. 3 Hours

Continuation of work done in VAF 204 with an emphasis on the development of finished figure drawings. Study of anatomy and the rendering of convincing volumes in space. Prerequisite(s): VAF 204.

VAF 325. Figure Painting. 3 Hours

Painting from the model with a variety of media. Traditional and contemporary approaches to the figure. Prerequisite(s): ((VAF 204 or VAF 304), VAF 226) or permission of department chairperson.

VAF 326. Painting II. 3 Hours

Painting with oils or acrylics; continuing study of the principles and techniques of painting, with emphasis on personal expression and experimentation. Prerequisite(s): (VAF 226 or VAF 228) or permission of department chairperson.

VAF 328. Watercolor II. 3 Hours

Continuing investigation of watercolor techniques, both traditional and experimental. Still life, figure, landscape, and abstraction. Prerequisite(s): VAF 228 or permission of department chairperson.

VAF 332. Sculpture II. 3 Hours

Continued exploration of three-dimensional concepts and materials, concentrating on wood, stone, and metal. Prerequisite(s): VAF 232 or permission of department chairperson.

VAF 333. Sculpture III. 3 Hours

Exploration of advanced sculptural skills, concepts, and processes. This course offers advanced investigation of sculpture as it relates to technical proficiency and the evolution of a personal aesthetic vision. Prerequisite(s): VAF 332 or permission of the Chair.

VAF 342. Ceramics III. 3 Hours

Expanded exploration of skills, concepts, and processes introduced in VAF 240 hand building or VAF 242 wheel thrown ceramic forms, with emphasis on building techniques, materials, glazing, and firing processes. Prerequisite(s): (VAF 240 or 242) or permission of instructor.

VAF 353. Printmaking II. 3 Hours

Advanced work in woodcut, monoprint and intaglio, including acrylic process and color etchings. Prerequisite(s): VAF 253.

VAF 370. Illustration I. 3 Hours

Attention to conceptual, visual, and technical development. Exploration of media and techniques employed by the illustrator in creating images for printed communication. Prerequisite(s): VAF 104, VAF 204.

VAF 380. Illustration II. 3 Hours

Interpretation and representation of concepts, products, or stories for magazines, books, newspapers, and advertising. Continued technical development with a variety of materials, media, and techniques. Prerequisite(s): VAF 370.

VAF 404. Advanced Investigations in Drawing. 3 Hours

Advanced studio course - focus on contemporary drawing practices. Further investigation and development of students' interests and material choices in developing a cohesive body of work. Emphasis on growth in personalized imagery reinforced by continued growth of technical skills and conceptual development. Prerequisite(s): VAF 304 or permission of Chairperson.

VAF 426. Painting III. 3 Hours

Directed advanced studio problems; contemporary issues in painting. Repeatable up to nine semester hours. Studio fee. Prerequisite(s): (VAF 325 or VAF 326) or permission of department chairperson.

VAF 427. Advanced Investigations in Painting. 3 Hours

Advanced studio focuses on contemporary painting practices and allows students to further investigate and develop their own interests and choices of materials as they work toward a cohesive body of work. Emphasis on growth in personalized imagery reinforced by continued growth of technical skills and conceptual development. Prerequisite(s): VAF 426 or by permission.

VAF 433. Advanced Investigations in Sculpture. 3 Hours

Advanced studio focuses on contemporary sculptural practices and allows students to further investigate and develop their own interests and choices of materials as they work toward a cohesive body of work. Emphasis on growth in personalized imagery reinforced by continued growth of technical skills and conceptual development. Prerequisite(s): VAF 432 or by permission.

VAF 442. Advanced Investigations in Ceramics. 3 Hours

Advanced studio course. Focus on contemporary ceramic practices; allows students to further investigate and develop their own interests and choices of materials and develop a cohesive body of work. Emphasis on growth in personalized imagery reinforced by continued growth of technical skills and conceptual development. Prerequisite(s): VAF 342 or permission of Chairperson.

VAF 453. Printmaking III. 3 Hours

Advanced work in printmaking processes with an emphasis on the production of multi-color editions. Prerequisite(s): VAF 353.

VAF 459. Advanced Investigations in Printmaking. 3 Hours

Advanced studio focuses on contemporary printmaking practices and allows students to further investigate and develop their own interests and choices of materials as they work toward a cohesive body of work. Emphasis on growth in personalized imagery reinforced by continued growth of technical skills and conceptual development. Prerequisite(s): VAF 253, VAF 353, VAF 453 or by permission of instructor.

VAF 470. Illustration III. 3 Hours

Focus on developing an individual point of view and illustration style. Prerequisite(s): VAF 380.

VAF 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the departmental chairpersons. Prerequisite(s): Approval of University Honors Program.

VAF 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

VAF 490. Special Problems. 1-5 Hours

Course for advanced individual work in fine arts. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours.

VAF 498. Senior/Professional Seminar- Fine Arts. 3 Hours

Capstone course required of all B.A. and B.F.A. fine arts and art education (E11) majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Prerequisite(s): Junior standing.

VAF 499. Senior Thesis. 1 Hour

Capstone course required for all BFA Fine Arts majors. Students examine the aesthetic, cultural, ethical, and pragmatic issues involved in and relating to their chosen discipline. Students complete a senior body of work for exhibition, a thesis paper, a public presentation, and a defense of the work. Prerequisite(s): VAF 498 or permission of department chairperson.

Visual Arts-Visual Comm Design Courses**VAD 211. Fundamentals of Visual Communication Design. 3 Hours**

Course for non-majors in the basics of design for communication. Attention to page layout, typography, image, graphic style, and information delivery.

VAD 220. Design Processes I. 3 Hours

Introduction to the processes of graphic design, specifically computer applications, equipment, and concepts as related to print and electronic based graphic design. Additionally, students engage in a survey of materials, assembly strategies, and various vehicles for the designed message. Prerequisite(s): VAF 112.

VAD 240. Form & Concept. 3 Hours

Exploration of visual form as means to convey content and meaning. Students enlist principles from art and design foundation courses within the context of graphic design. Design methodologies are introduced and explored, while process and hand skills are stressed. Prerequisite(s): VAF 112, VAF 216.

VAD 245. Typography I. 3 Hours

Investigation of the history, tradition, discipline, and function of typography as related to visual and verbal communication. Technical, formal, and semantic aspects are explored. Structure, space, and sequence, critical to the typographic message, are stressed. Prerequisite(s): VAD 220, VAD 240.

VAD 307. Drawing for Graphic Design. 2 Hours

Exploration of materials, procedures, and drawing techniques for design presentations. Prerequisite(s): VAF 104.

VAD 310. Computer Illustration. 3 Hours

Exploration of the use of the computer as tool and medium for the creation and production of image and illustration for print and electronic graphic design. Prerequisite(s): VAD 220, VAD 240.

VAD 318. Graphic Design for Three Dimensions. 3 Hours

Application of graphic design principles to packaging, product, exhibition, and environmental design. Prerequisite(s): VAD 240, VAD 245; VAF 117.

VAD 320. Design Processes II. 3 Hours

Advanced exploration into the use of computer technology as means and medium for the implementation, production, and presentation of graphic design. Print design and production, as well as commercial printing press are emphasized with additional attention given to production for electronic design vehicles. Prerequisite(s): VAD 220, VAD 240, VAD 245.

VAD 345. Typography II. 3 Hours

The advanced study of typographic design. Attention to the aesthetic and informational qualities of type in print and electronic communication. Prerequisite(s): VAD 245.

VAD 351. Motion Design. 3 Hours

Exploration of the generation and application of motion in visual communication. This course builds on graphic design form, methods, technique, and principles to generate dynamic messaging using type, sound, image, and animation. While the computer and appropriate applications are primary tools, hand generated methods for concept and storyboarding are stressed as well. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 355. Interaction Design. 3 Hours

Investigation of the use of interactivity as applied to the digital and analog landscape. Focus on the design of richly interactive interfaces for current and emerging media (computers, mobile, touch etc.). While some emphasis is on the development and implementation of design vehicles, decided attention is paid to concept and visual effectiveness. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 360. Web Design. 3 Hours

Investigation of the processes of web design, including concept, information architecture, navigation, interface, and standard languages and technologies for the delivery of content and information. Organization, aesthetics, and user experience are discussed and explored. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 395. Advertising Design. 3 Hours

Emphasis on print advertising, its creation and presentation. Concept development and attention to advertising layouts that carry motivating images and messages to consumers about products, services, or ideas.

VAD 411. Graphic Design I. 3 Hours

Development of methodologies utilized for the purpose of generating concepts and effective communication within the context of graphic design. Attention is given to pragmatic and semantic relationships between elements such as typography, image, space, and color. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 412. Graphic Design II. 3 Hours

Development of methodologies utilized for the purpose of generating concepts and effective communication within the context of graphic design. Attention is given to pragmatic and semantic relationships between elements such as typography, image, space, and color. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320, VAD 411.

VAD 414. Trademark Design. 3 Hours

Advanced study of marks, logos, and symbols as communication and identification elements. Emphasis on conceiving design marks of identity for small businesses, corporations, institutions, products, and/or services. Prerequisite(s): VAD 411.

VAD 415. Graphic Design III. 3 Hours

The study and design of identification and image systems for products, organizations, institutions, or corporations. Emphasis on continuity in the application of visual communication factors. Prerequisite(s): VAD 412 or permission of department chairperson.

VAD 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAD 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved VAD 477; approval of University Honors Program.

VAD 480. Graphic Design Internship. 1-3 Hours

Opportunities for practical experience in professional working environments. Repeatable up to nine semester hours. Prerequisite(s): Permission of department chairperson.

VAD 490. Special Problems. 1-3 Hours

A course for advanced individual work in design. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours.

VAD 497. Portfolio and Paper - Graphic Design. 1 Hour

1 credit hour Capstone course required for BFA Graphic Design majors that is to be taken in the final semester of the senior year. Students complete an undergraduate portfolio and paper to be presented and reviewed by faculty, peers, and professionals in a public forum. Faculty approval of portfolio and paper is required for graduation. Prerequisite(s): VAD 498 or permission of department chairperson.

VAD 498. Senior/Professional Seminar - Graphic Design. 3 Hours

Capstone course required of all B.F.A. graphic design majors, to be taken in the fall term of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Prerequisite(s): Senior standing or permission of department chairperson.

VAD 499. Portfolio and Paper - Graphic Design. 3 Hours

Capstone course required for all BFA Graphic Design majors that is to be taken in the final semester of the senior year. Students complete an undergraduate portfolio and paper, to be presented and reviewed by faculty, peers, and professionals in a public forum. Faculty approval of portfolio and paper is required for graduation. Prerequisite(s): VAD 498 or permission of department chairperson.

Visual Arts-Photography Courses**VAP 100. Darkroom Photography for Non-Majors. 3 Hours**

Emphasis on learning and exploring the visual language of lens-based photographic imagery through a series of technical and creative darkroom assignments. Black and white film and chemical processes will be utilized in the creation of photographs. Students gain an understanding of technical and creative control as well as conceptual practices associated with the medium. This course does not fulfill requirements within the Department of Visual Arts. Studio fee.

VAP 101. Foundation Photography. 3 Hours

An experiential project-based course utilizing black and white film based photography designed to challenge the student technically, critically, conceptually, and in the aesthetic problems unique to the photographic medium. Emphasis is placed on the development of individual expression, critical, creative and technical growth through the photographic medium.

VAP 200. Digital Photography for Non-Majors. 3 Hours

An emphasis on learning and exploring the visual language of lens-based digital photographic imagery through a series of technical and creative digital assignments. Using various types of digital capture devices, some examples are cell phones, consumer grade digital cameras and scanners. Macintosh computers, and Adobe Photoshop software will be utilized in the creation of photographs. Students gain an understanding of technical and creative control as well as conceptual practices associated with the digital photographic medium. Course does not fulfill Visual Arts degree requirements.

VAP 201. Photography II. 3 Hours

Variety of challenging projects develop increased technical competence, greater visual awareness, personal expression, and sustained creative growth. Prerequisite(s): VAP 101 or equivalent.

VAP 240. Digital Processes I. 3 Hours

Introduction to the practice, theory, aesthetics, and ethics of digital photography, including direct capture, scanning, enhancement, compositing, manipulation, and high-quality printing. Prerequisite(s): VAP 101 or permission of department chairperson.

VAP 302. Color Photography I. 3 Hours

Introduction to techniques and aesthetics of color photography. Students utilize color sensitive films, papers, and digital technologies in the exploration of color photography. Prerequisite(s): (VAP 101, VAP 240) or permission of department chairperson.

VAP 320. Studio Practice I. 3 Hours

Extensive use of large format camera, studio grip equipment, tungsten and electronic flash lighting techniques; still-life and portrait photography in a studio environment. Prerequisite(s): VAP 201.

VAP 321. Studio Practice II. 3 Hours

Emphasis on the production of a professional-quality portfolio which will demonstrate advanced knowledge of the studio and image production. Prerequisite(s): VAP 320.

VAP 330. Alternative Photography I. 3 Hours

Introduction to specialized image production utilizing silver and non-silver photographic processes. Emphasis on technical and aesthetic aspects of alternative photographic practice. Prerequisite(s): VAP 101.

VAP 331. Alternative Photography I. 3 Hours

Continuing work with alternative silver and non-silver processes. Emphasis on completion of an artist book or installation which demonstrates advanced technical command and aesthetic understanding of the processes employed. Prerequisite(s): VAP 330.

VAP 340. Digital Processes II. 3 Hours

Expands on the practice and theory of digital photography and computer imaging. Emphasis is placed on the creation of a cohesive portfolio of digital artwork through the exploration of advanced digital methodologies and concepts. The course will also focus on the different modes of dissemination relevant to digital images. Prerequisite(s): VAP 240.

VAP 350. View Camera. 3 Hours

Extensive experience with the view camera, examination of refined techniques, various applications, and concepts of large format photography. Prerequisite(s): VAP 201.

VAP 402. Color Photography II. 3 Hours

Continuation of color printing from negatives; completion of individual projects which will demonstrate an advanced understanding of the techniques and aesthetics peculiar to color photography. Prerequisite(s): VAP 302.

VAP 410. Advanced Photography. 3 Hours

Students with a substantial commitment to photography and with demonstrated technical skills work on individual projects and participate in group critiques and discussions. Prerequisite(s): VAH 382 or VAH 482; VAP 201, VAP 302.

VAP 420. Photojournalism. 3 Hours

Variety of ways of using photography as documentation, narrative, and propaganda. Editing of work, layout, and image-text relationships. Personal photographic essay required. Prerequisite(s): VAP 201.

VAP 430. Professional Photographic Applications. 3 Hours

Problem-solving associated with professional photography; may include commercial, editorial, industrial, architectural, and illustrative photographic work both in the studio and on location. Prerequisite(s): VAP 320 or permission of department chairperson.

VAP 450. Photography Internship. 1-3 Hours

Practical applications of photographic skills. Opportunities for advanced development and practical experience in professional working environments. Repeatable up to six semester hours for B.F.A. students. Prerequisite(s): Permission of department chairperson.

VAP 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAP 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

VAP 490. Special Problems in Photography. 1-5 Hours

Series of assignments to guide independent study in photography, formulated to meet individual needs of the student. Prerequisite(s): VAP 201; permission of department chairperson.

VAP 498. Senior/Professional Seminar- Photography. 3 Hours

Capstone course required of all B.A. and B.F.A. photography majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Prerequisite(s): (VAP 410; senior standing) or permission of department chairperson.

VAP 499. Senior Seminar II. 1 Hour

Capstone course required for all BFA Photography majors. Students examine the aesthetic, cultural, ethical, and pragmatic issues involved in and relating to photography. Students complete a senior project and paper, and give a public presentation of their research to be reviewed by faculty and peers. Prerequisite(s): VAP 498 or permission of department chairperson.

Visual Arts Courses

VAR 100. Visual Arts Foundation. 1 Hour

Defines and examines the process of beginning a program of education in the visual arts within the larger context of the College of Arts and Sciences and the University. Integrates pragmatic and conceptual issues critical to liberal learning for visual arts students.

VAR 210. Visual Journal. 3 Hours

Students document and interpret their experience of a given site through the creation of unique journals. They create, collect, edit, and juxtapose visual materials in combination with written commentary and reflections.

VAR 220. Visual Resources. 3 Hours

Students study a wide variety of visual elements, including many forms of visual communication as well as architecture, public spaces, and museums, in order to understand ways in which art and design play key roles in defining the unique cultural environment of a given site.

VAR 250. Diversity in Creative & Performing Arts. 3 Hours

This course serves to introduce students to the interdisciplinary fields of visual and performing arts through a critical multicultural and social justice lens that foregrounds the appreciation of diversity and enables the expansion of personal cultural competencies. This Integrative and Diversity and Social Justice CAP course will also engage students in creating performance and/or art in response to diversity and social justice issues.

VAR 299. Second Year Review. 0 Hours

Requires successful completion of Visual Arts Second Year Review. Eligibility for the review is determined by the department and is based upon a student's progress within the major. Visual Arts Scholarship recipients complete this course during their second year in the major. The review is based upon prior Visual Arts coursework completed and in progress at the time of the review. Required for all Visual Arts majors.

VAR 303. Scenic Painting. 3 Hours

Exploration through experiential learning of the tools, techniques and terminology used in the craft of scenic painting. The student will learn fundamental and advanced scenic painting techniques with additional emphasis on faux painting techniques and trompe l'oeil painting. Open to all university students.

VAR 314. Musical & Opera Workshop. 3 Hours

An experiential course where students rehearse and perform in a mainstage musical or opera production. Audition required. Open to all students. Fall only. Co-requisite(s): Additional rehearsals to prepare for production. MUS 390, Musical & Opera Workshop is a co-requisite.

VAR 330. Comparative Visual Culture in Film. 3 Hours

The course examines visual culture codes through a survey of global cinema. Students focus on the analysis and interpretation of visual culture through comparisons of western and non-western societies. Discussion topics may include race/ethnicity, gender/sexuality, age, disability and socioeconomic class issues. Students will examine the ways through which topics are depicted in film through visual language. The geographic regions and the main theme of cinema may vary each semester dependent upon the expertise each faculty member brings to class.

VAR 345. Computer Modeling & Animation I. 3 Hours

Introduction to history, theory, and practice of three-dimensional computer modeling and animation for video, computer, and print media. Visualization, Cartesian space, simple polygonal modeling, surface rendering, and animation techniques will be explored.

VAR 350. Art and Social Practice. 3 Hours

Exploration of varying modes of collaborative art production, for both artists and non-art students, towards the end of understanding and organizing for effective social change and/or inquiry within studio and community settings. Students organize, produce and exhibit an interdisciplinary group project developed utilizing a sociological lens in an off-campus or social media space.

VAR 440. Computer Modeling & Animation II. 3 Hours

Detailed study of spline-based modeling, surface rendering and mapping, editing complex animation sequences, motion control, and other topics. Prerequisite(s): VAR 345.

VAR 445. Computer Modeling & Animation III. 3 Hours

Individual projects in conceptualization and production of animated sequence from storyboard to final presentation. Prerequisite(s): VAR 440.

VAR 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAR 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

VAR 490. Special Problems. 1-5 Hours

Advanced, independent study with faculty direction in a visual arts subject or topic that is not covered in existing, discipline-specific courses. Permission.

VAR 495. Senior Project Seminar. 1 Hour

The first in a sequence of two capstone courses. To be taken in the first semester of the senior year. Required for all Bachelor of Arts with a major in Visual Arts degrees. Students select a faculty mentor committee and work with that committee to establish a capstone project topic, goals, outcomes, and timeline associated with the project. Prerequisite(s): Senior standing. VAR majors only or permission of department chairperson.

VAR 496. Senior Project, Presentation and Paper. 3 Hours

VAR496 is a 3 credit hour capstone course to be taken in the second semester of the senior year. Graduation requirement for B.A. visual arts majors. Students reflect upon their selected vocation in the visual arts by reviewing professional practices, standards and activities across several related disciplines. Students complete a senior project and paper, and give a public presentation of their research to be reviewed by faculty and peers. Faculty approval of project and paper is required for graduation. Prerequisite(s): VAR 495 or permission of department chairperson.

Asian Studies

The Asian Studies Minor is designed for students interested in language, history, culture and philosophies of Asia. With a focus on the peoples of South and East Asia, students will be exposed to interdisciplinary

methodologies and comparative perspectives. The Minor is designed to allow students to plan a structured series of courses that will contribute to an intellectual engagement and appreciation of the diversity of Asian societies. The Minor consists of 15 credits selected from the following disciplines: History, Global Languages, Philosophy, Religious Studies, Art and Design, and Business.

The Asian Studies minor requires 15 semester hours of courses selected from the following list. Courses must be from at least three disciplines.

Asian Studies Committee

Christopher Agnew (History), Director

Bein (Philosophy), Dasgupta (Sociology), Lau (Marketing), MacLachlan (Music), Roy (History), Yang (Languages)

Minor in Asian Studies (ANS)

Asian Studies

Select five courses from at least three different disciplines: ¹

ANT 360	Making of Modern South Asia
CHI 202	Intermediate Mandarin Chinese II
CHI 345	Chinese Civilization and Culture
CHI 391	Directed Study
HND 202	Intermediate Hindi II
HST 260	History of Pre-Modern East Asia
HST 330	History of East Asia to 1800
HST 331	India: Traditions and Encounters
HST 332	History of Modern East Asia
HST 335	Making of Modern South Asia
HST 338	State & Secession in South Asia
HST 339	Gandhi's India
HST 386	China in Revolution
HST 492	Seminar in Asian History
INB 352	Doing Business in Asia
PHL 346	Chinese Philosophy
PHL 347	Japanese Philosophy
PHL 348	Comparative East-West Philosophy
PHL 355	Asian Philosophy
REL 304	Hinduism
REL 306	Buddhism
VAH 330	Arts of Asia
Total Hours	15

¹ Additional courses may be approved by the Program Director. Individual sections of courses may be approved for credit if the content of the section is focused on Asia.

Biology

Majors:

- Bachelor of Science, Biology (p. 130)
- Bachelor of Science, Environmental Biology (p. 131)

Minor:

- Biology (p. 133)

The Bachelor of Science program in biology is designed to prepare a student for a career in the life sciences. Graduates of the program are competitive for entry into graduate programs in the biological sciences as well as professional schools, such as medical, dental, osteopathic, and veterinary science, as well as physician assistant (PA) and advanced nursing programs.

The department has two primary areas of focus:

1. Basic biomedical science
2. Environmental/ecological science

Biomedical science course offerings includes:

- Cell biology
- Developmental biology
- General and medical microbiology
- Genetics
- Immunology
- Mammalian physiology
- Molecular biology

Environmental/ecological science course offerings include:

- Community and restoration ecology
- Ecological physiology
- Ecology
- Entomology and analysis of biological data
- Environmental biology in the narrow sense
- Environmental microbiology
- Evolutionary biology
- Plant physiology
- Population biology

In addition, advanced undergraduates may enroll in graduate courses for undergraduate credit with the consent of the department chairperson. In line with the two areas of research interests, the department encourages students (in consultation with their advisors) to declare one of the two as an area of concentration of study no later than the end of their sophomore year. For the student more interested in a broad approach to biology, the department recommends a third option, the general biology option (any combination of upper-level biology courses that fulfills the program requirements).

The department offers a research mentorship program for upper-level students majoring in biology. The program allows a student to work closely with both faculty and graduate students in laboratory and/or field research. Participation in the program is based on the recommendation of a member of the faculty. The mentorship program is designed to provide a significant advantage for those students who intend to enter a graduate program.

The department also offers a combined five-year Bachelor and Master of Science (5Y B.S.-M.S.) degree in Biology. This accelerated program is designed for students who display strong potential for research in biology. It provides a liberal arts education, a broad background in biology, the development of expertise in a biological subfield, and a thorough introduction to research instrumentation and techniques. Graduates from the program are prepared for either direct entry into the job market or continuation toward the Ph.D. A detailed description of

the five-year B.S.-M.S. program may be obtained from the departmental office.

A minor in biology consists of 20 semester hours.

Faculty

Mark Nielsen, Chairperson

Distinguished Service Professor: Noland

Professors Emeriti: Chantell, Geiger, Kearns, Ramsey, Rowe

Professors: Burky, Krane, Robinson, Tsonis, P. Williams, S. Wright

Associate Professors: Friese, Hansen, Kango-Singh, McEwan, Nielsen, Singh, T. Williams, D. Wright,

Assistant Professors: Pitychoutis, Sun

Lecturers: Carter, Dillon, Kavanaugh, Klco, Nickell

Bachelor of Science, Biology (BIO) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

(Satisfies CAP Mathematics and CAP Natural Science)

CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
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CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
PHY 201 & 201L	College Physics I and College Physics Laboratory I	4
PHY 202 & 202L	General Physics and General Physics Laboratory	4
Select one mathematics sequence from:		6-8
MTH 116 & MTH 148	Precalculus Math and Introductory Calculus I	
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II	
MTH 168 & MTH 169	Analytic Geometry & Calculus I and Analytic Geometry & Calculus II	

Major Requirements ^{1,6}

BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
BIO 299	Biology Seminar	1
BIO 310	Ecology	3
BIO 312	General Genetics	3
BIO 420	Biology Capstone Seminar (Satisfies Cap Major Capstone)	1
Select two environmental/ecological courses from: ^{2,6}		7
BIO 301	Evolution	
BIO 309 & 309L	Comparative Anatomy of the Vertebrates and Comparative Anatomy Laboratory	
BIO 310L	Ecology Laboratory	
BIO 311	Introductory Entomology	
BIO 312L	Genetics Laboratory	
BIO 314 & 314L	Plant Biology and Plant Biology Laboratory	
BIO 320 & 320L	Marine Biology and Marine Biology Laboratory	
BIO 340 & 340L	Culture, Biodiversity & Resources Management and Culture, Biodiversity & Resources Management Laboratory	
BIO 359	Sustainability & the Biosphere	
BIO 360 & 360L	Island Environmental Biology and Island Environmental Biology Laboratory	
BIO 370	Conservation Biology	
BIO 402 & 402L	Vertebrate Zoology and Vertebrate Zoology Laboratory	
BIO 407 & 407L	Plant Diversity & Ecology and Plant Diversity & Ecology Laboratory	
BIO 409 & 409L	Ecological Restoration and Ecological Restoration Laboratory	
BIO 411 & 411L	General Microbiology and General Microbiology Laboratory	

BIO 421	Biological Problems ⁴	
BIO 435 & 435L	Microbial Ecology and Microbial Ecology Laboratory	
BIO 439	Analysis & Interpretation of Biological Data	
BIO 441	Environmental Plant Biology	
BIO 445	Evolution & Development	
BIO 450 & 450L	Comparative Animal Physiology and Comparative Animal Physiology Laboratory	
BIO 452 & 452L	Biology of Rivers & Lakes and Biology of Rivers & Lakes Laboratory	
BIO 459 & 459L	Environmental Ecology and Environmental Ecology Laboratory	
BIO 460	Introduction to Bioinformatics	
BIO 461 & 461L	Invertebrate Zoology and Invertebrate Zoology Laboratory	
BIO 465	Disease Ecology	
BIO 480 & 480L	Principles of Microscopy and Principles of Microscopy Laboratory	
BIO 489	Mycology	
Select two basic biomedical courses from: ^{3,6}		7
BIO 301	Evolution	
BIO 309 & 309L	Comparative Anatomy of the Vertebrates and Comparative Anatomy Laboratory	
BIO 311	Introductory Entomology	
BIO 312L	Genetics Laboratory	
BIO 403 & 403L	Physiology I and Physiology Laboratory I	
BIO 404	Physiology II	
BIO 411 & 411L	General Microbiology and General Microbiology Laboratory	
BIO 412	Genetics Human Diseases	
BIO 415	Neurobiology	
BIO 421	Biological Problems ⁴	
BIO 427	Immunology	
BIO 439	Analysis & Interpretation of Biological Data	
BIO 440 & 440L	Cell Biology and Cell Biology Laboratory	
BIO 442 & 442L	Developmental Biology and Developmental Biology Laboratory	
BIO 445	Evolution & Development	
BIO 460	Introduction to Bioinformatics	
BIO 461 & 461L	Invertebrate Zoology and Invertebrate Zoology Laboratory	
BIO 462	Molecular Biology	
BIO 465	Disease Ecology	
BIO 466	Biology of Infectious Disease	
BIO 470	Cancer Biology	
BIO 475 & 475L	Human Anatomy and Human Anatomy Laboratory	
BIO 480 & 480L	Principles of Microscopy and Principles of Microscopy Laboratory	
BIO 489	Mycology	
CHM 420	Biochemistry	

Select four electives, two with accompanying labs, from the group above. ^{5,6} 14

Breadth ⁷

ASI 150	Introduction to the University Experience	1
Social & Behavioral Sciences (includes CAP Social Science)		6
Total Hours to total at least		120

- ¹ The Department of Biology supports national standards established by the National Institutes of Health for the responsible, humane treatment and housing of animals. The biology curriculum contains some laboratory courses in which dissection and vivisection are necessary and required in order to convey an understanding of certain biological concepts. All students are expected to participate in such laboratory exercises in the introductory biology sequence, BIO 151L and BIO 152L which involve dissection and/or vivisection. In other elective formal laboratory courses in which dissection and vivisection occur, it is expected that students will participate in all aspects of the laboratory. No alternatives to dissection or vivisection will be offered in these courses. It is ultimately the responsibility of students to make certain that they enroll in courses in which they are able to participate in all required exercises, and to obtain information from each instructor as to the specific laboratory course content and requirements. The Department of Biology maintains an updated list of laboratory courses in which dissection and/or vivisection is required in order to assist students in the selection of course work.
- ² One with accompanying laboratory.
- ³ One with accompanying laboratory. BIO 462 strongly recommended as one of two courses.
- ⁴ By permission only. Qualifies as a laboratory elective for any category.
- ⁵ One of the following Non-BIO science courses may include: CHM 201, CHM 302, CHM 303, CHM 420, MTH 367, CPS 107, CPS 111, CPS 132, GEO Non-BIO science courses may be included with the approval of the chairperson.
- ⁶ A minimum grade of C- is required.
- ⁷ HST 340, HST 341 or HST 342 are highly recommended.

Bachelor of Science, Environmental Biology (EVB) minimum 120 hours

Environmental biology is a science specialization based upon the fundamentals of biology and ecology, applying interdisciplinary skills, knowledge, and principles to the environmental problems facing society today. Students entering this dynamic field could become directly involved in addressing some of the significant global problems related to human impact on the environment. In addition to the standard base of courses required of most biology majors, the curriculum also requires a challenging core of environmentally related science courses and course work drawn from a multidisciplinary elective pool that includes offerings in the humanities and social sciences.

Internship Program: Majors will participate in the EVB internship program (BIO 499, see course prerequisites), where they will have the unique opportunity to obtain valuable training and experience under the mentorship of established scientists and other environmental professionals.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12	BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
HST 103 West and the World		BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
REL 103 Introduction to Religious and Theological Studies		BIO 299	Biology Seminar	1
PHL 103 Intro To Philosophy		BIO 310 & 310L	Ecology and Ecology Laboratory	4
ENG 100 Writing Seminar I ²		BIO 312	General Genetics	3
Second-Year Writing Seminar ³	0-3	BIO 420	Biology Capstone Seminar (Satisfies CAP Major Capstone)	1
ENG 200 Writing Seminar II		BIO 479L	Environmental Instrumentation Laboratory	2
Oral Communication	3	BIO 499	Environmental Biology Internship ³	3
CMM 100 Principles of Oral Communication		Environmental and Ecological Courses: Select 5 lectures and 4 labs: ^{2,4}		19
Mathematics	3	BIO 301	Evolution	
Social Science	3	BIO 311	Introductory Entomology	
SSC 200 Social Science Integrated		BIO 312L	Genetics Laboratory	
Arts	3	BIO 314 & 314L	Plant Biology and Plant Biology Laboratory	
Natural Sciences ⁴	7	BIO 320 & 320L	Marine Biology and Marine Biology Laboratory	
Crossing Boundaries	variable credit	BIO 330 & 330L	Animal Behavior and Animal Behavior Laboratory	
Faith Traditions		BIO 340 & 340L	Culture, Biodiversity & Resources Management and Culture, Biodiversity & Resources Management Laboratory	
Practical Ethical Action		BIO 359	Sustainability & the Biosphere	
Inquiry		BIO 370	Conservation Biology	
Integrative		BIO 402 & 402L	Vertebrate Zoology and Vertebrate Zoology Laboratory	
Advanced Study	variable credit	BIO 407 & 407L	Plant Diversity & Ecology and Plant Diversity & Ecology Laboratory	
Philosophy and/or Religious Studies		BIO 409 & 409L	Ecological Restoration and Ecological Restoration Laboratory	
Historical Studies		BIO 421	Biological Problems ⁵	
Diversity and Social Justice	3	BIO 439	Analysis & Interpretation of Biological Data	
Major Capstone	0-3	BIO 450 & 450L	Comparative Animal Physiology and Comparative Animal Physiology Laboratory	
		BIO 452 & 452L	Biology of Rivers & Lakes and Biology of Rivers & Lakes Laboratory	
		BIO 459 & 459L	Environmental Ecology and Environmental Ecology Laboratory	
		BIO 478	Honors Thesis Project	
		BIO 489	Mycology	
		BIO 496	Special Topics in Biology	
		Biology Elective: Select one course from: ^{2,3,5,6}		3
		BIO 309 & 309L	Comparative Anatomy of the Vertebrates and Comparative Anatomy Laboratory	
		BIO 403 & 403L	Physiology I and Physiology Laboratory I	
		BIO 404	Physiology II	
		BIO 411 & 411L	General Microbiology and General Microbiology Laboratory	
Science Breadth Requirements				
(Satisfies CAP Mathematics and CAP Natural Science)				
CHM 123 General Chemistry & 123L and General Chemistry Laboratory	4			
CHM 124 General Chemistry & 124L and General Chemistry Laboratory	4			
CHM 313 Organic Chemistry & 313L and Organic Chemistry Laboratory	4			
GEO 115 Physical Geology	3			
GEO 116 Geological History of the Earth	3			
GEO 450 Applied Geographic Information Systems	4			
PHY 201 College Physics I & 201L and College Physics Laboratory I	4			
Select one sequence from:	6-7			
MTH 116 Precalculus Math & MTH 148 and Introductory Calculus I				
MTH 148 Introductory Calculus I & MTH 149 and Introductory Calculus II				
MTH 148 Introductory Calculus I & MTH 207 and Introduction to Statistics ¹				
Major Requirements ²	44			

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

BIO 412	Genetics Human Diseases	
BIO 415	Neurobiology	
BIO 427	Immunology	
BIO 435 & 435L	Microbial Ecology and Microbial Ecology Laboratory	
BIO 440 & 440L	Cell Biology and Cell Biology Laboratory	
BIO 442 & 442L	Developmental Biology and Developmental Biology Laboratory	
BIO 445	Evolution & Development	
BIO 462	Molecular Biology	
BIO 466	Biology of Infectious Disease	
BIO 475 & 475L	Human Anatomy and Human Anatomy Laboratory	
BIO 480 & 480L	Principles of Microscopy and Principles of Microscopy Laboratory	

Breadth

ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences		6
Total Hours to total at least		120

- ¹ Other appropriate statistics courses may be substituted with the approval of the EVB Program Director or Department Chairperson.
- ² A minimum grade of C- is required for all BIO courses.
- ³ BIO 499 requires the permission of the EVB Program Director.
- ⁴ One Laboratory from the Biology Electives can count toward Environmental & Ecological requirements.
- ⁵ BIO 421 is permission only. Qualifies as a laboratory elective.
- ⁶ One of the following non-BIO science courses may be substituted as a Biology Elective Course: SEE 301, CHM 314, MTH 367. GEO 208.

Minor in Biology (BIO)

Biology

BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
BIO 310	Ecology	3
BIO 312	General Genetics	3
Select two BIO courses (300/400 level)		6
Total Hours		20

- Bachelor of Science, Biology (p. 130)
- Bachelor of Science, Environmental Biology (p. 131)

Biology

First Year

Fall	Hours Spring	Hours
ASI 150	1 BIO 152 & 152L	4
BIO 151 & 151L (CAP Natural Science w/lab)	4 CHM 124 & 124L	4
CHM 123 & 123L	4 MTH 149	3

MTH 148 (Satisfies CAP Mathematics)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
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		17

Second Year

Fall	Hours Spring	Hours
BIO 299	1 BIO 310	3
BIO 312	3 CHM 314 & 314L	4
CHM 313 & 313L	4 PHY 202 & 202L	4
PHY 201 & 201L (CAP Natural Science w/lab)	4 CMM 100 (CAP Communication)	3
ENG 200 (CAP Writing Seminar)	3 SSC 200 (CAP Social Science)	3
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Third Year

Fall	Hours Spring	Hours
BIO Elective Biomed	3 BIO 420 (Satisfies CAP Major Capstone)	1
BIO Elective Env/Eco w/lab	4 BIO Elective Env/Eco	3
CAP Arts	3 BIO Elective Biomed w/lab	4
CAP Faith Traditions	3 CAP Inquiry	3
CAP Advanced Historical Studies	3 CAP Integrative Social Science - elective	3
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		16
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		17

Fourth Year

Fall	Hours Spring	Hours
BIO Elective w/lab	4 BIO Elective w/lab	4
BIO Elective	3 BIO Elective	3
CAP Adv. Philosophy/Religious Studies (Practical Ethical Action)	3 CAP Advanced Philosophy/Religious Studies	3
CAP Diversity and Social Justice	3 General Elective (optional)	3
General Elective (optional)	3 General Elective (optional)	3
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		16
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		16

Total credit hours: 132

Environmental Biology

First Year

Fall	Hours Spring	Hours
ASI 150	1 BIO 152 & 152L	4
BIO 151 & 151L (CAP Natural Science w/lab)	4 CHM 124 & 124L	4
CHM 123 & 123L	4 MTH 149	3
MTH 148 (Satisfies CAP Mathematics)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	
	18	17

Second Year

Fall	Hours Spring	Hours
BIO 310 & 310L	4 BIO 299	1
CHM 313 & 313L	4 BIO 312	3
PHY 201 & 201L (CAP Natural Science w/lab)	4 CHM 314 & 314L	4
ANT 150 (Satisfies CAP Inquiry, Diversity and Social Justice, Social Science elective)	3 PHY 202 & 202L	4
ENG 200 (CAP Writing Seminar)	3 CMM 100 (CAP Communication)	3
	SSC 200 (CAP Social Science)	3
	18	18

Third Year

Fall	Hours Spring	Hours
BIO 459	3 BIO 420 (Satisfies CAP Major Capstone)	1
BIO Field Elective w/Lab	4 BIO Lab- Oriented Elective w/ Lab	4
GEO 115 & 115L	4 GEO 116 & 116L	4
MTH 367	3 CAP Faith Traditions	3
CAP Arts	3 CAP Advanced Historical Studies	3
	17	15

Fourth Year

Fall	Hours Spring	Hours
BIO 479L	2 BIO 499	3
BIO Field Elective w/Lab	4 BIO Field Elective	3
BIO Lab-Oriented Elective	3 BIO Lab- Oriented Elective	3

GEO 307, 308, 309, or 450	3-4 CAP Integrative	3
CAP Adv. Philosophy/Religious Studies (Practical Ethical Action)	3 CAP Advanced Philosophy/ Religious Studies	3
	15-16	15

Total credit hours: 133-134

Courses

BIO 101. Life, Environment, and Society. 3 Hours

An introductory course covering the study of life in all its forms, understanding how life interacts with the environment and the role of biological inquiry in society. Emphasis will be placed on discussing topical issues relevant to evaluating the critical role of the life sciences in society today. Supporting laboratory strongly recommended, but optional. No prerequisite. For non-science majors only.

BIO 101L. Life, Environment, and Society Laboratory. 1 Hour

A hands-on approach to the study of life, understanding how life interacts with the environment, and the role of biological inquiry in society. Lab activities will stress an experiential, inquiry-based approach to topics relevant in today's society in an effort to increase student's abilities to critically evaluate modern science media. Laboratory topics are designed to run parallel to lecture topics. Recommended that the laboratory be taken concurrently with BIO 101 lecture. One two-hour laboratory per week. For non-science majors. Corequisite(s): BIO 101.

BIO 151. Concepts of Biology I: Cellular & Molecular Biology. 3 Hours

Introduction to the biological concepts surrounding cell and molecular biology. Topics include scientific practice, molecular basis of life, cellular composition and energy processes, genetics, and biotechnology. Intended for science majors. Core biology course.

BIO 151L. Concepts of Biology Laboratory I: Cellular & Molecular Biology. 1 Hour

Laboratory-based introduction to the biological concepts surrounding cell and molecular biology. Utilizing a hands-on approach to the study of life, students will take part in experiential, inquiry-based activities as they observe the properties of cellular, micro-scale biology while concurrently defining proper laboratory procedures, operating modern scientific instrumentation, and practicing effective documentation of experiments. Topics include scientific practice, biological instrumentation, cellular composition and processes, genetics, and biotechnology. One three-hour lab per week. Intended for science majors. Core biology course. Corequisite(s): BIO 151.

BIO 152. Concepts of Biology II: Evolution & Ecology. 3 Hours

Introduction to the biological concepts surrounding evolution and ecology. Topics include scientific practice, evolutionary basis of life, phylogeny and systematics, biodiversity, ecology and biosphere sustainability. Intended for science majors. Core biology course.

BIO 152L. Concepts of Biology Laboratory II: Evolution & Ecology. 1 Hour

Laboratory-based introduction to the biological concepts surrounding evolution, diversity and ecology. Utilizing a hands-on approach, students will take part in experiential, inquiry-based activities as they explore the concepts of evolution and macro-scale biology while concurrently developing proper laboratory procedures, operating modern scientific instrumentation, and practicing effective scientific presentation of research through the two most widely accepted formats: the scientific journal article and the research poster presentation. Topics include evolution and phylogeny, the diversity of life, ecology, and human impact on ecosystems. One three-hour laboratory per week. Intended for science majors. Core biology course. Corequisite(s): BIO 152.

BIO 299. Biology Seminar. 1 Hour

Introduction to biological journals and abstracting materials. Practice in reviewing, abstracting, and presenting biological information, and career development. Core biology course. Biology and environmental biology majors only. Prerequisite(s): BIO 152.

BIO 2XXL. Non-equivalent transfer. 0-99 Hours**BIO 301. Evolution. 3 Hours**

Theory and evidence of organic evolution, with emphasis on microevolutionary change and population genetics. Prerequisite(s): BIO 152.

BIO 309. Comparative Anatomy of the Vertebrates. 3 Hours

Study of changes that have occurred in the vertebrate body with the passage of time, and analysis of their significance. Prerequisite(s): BIO 152.

BIO 309L. Comparative Anatomy Laboratory. 1 Hour

Dissection and study of the anatomical structure of representative vertebrate animals. One three-hour laboratory per week. Corequisite(s): BIO 309.

BIO 310. Ecology. 3 Hours

Interrelationship of plants, animals, and micro-organisms with the physical-chemical environment: nutrient cycles, energy flow, ecosystems, and factors affecting distribution and abundance of organisms. Core biology course. Prerequisite(s): BIO 152.

BIO 310L. Ecology Laboratory. 1 Hour

Measurement of population, community, and environmental variables in terrestrial and aquatic systems. The lab is field-based using local ecological resources. One three-hour laboratory per week and weekend field trips. Corequisite(s): BIO 310.

BIO 311. Introductory Entomology. 3 Hours

Classification, physiology, ecology, and impact of insects on society. Prerequisite(s): BIO 152.

BIO 312. General Genetics. 3 Hours

Study of the principles of variation and heredity covering both Mendelian and molecular genetics. Core biology course. Prerequisite(s): BIO 152.

BIO 312L. Genetics Laboratory. 1 Hour

Exploration of heredity using molecular genetic methods. One three-hour laboratory per week. Corequisite(s): BIO 312.

BIO 314. Plant Biology. 3 Hours

Consideration of structure, function, reproduction, and inheritance as applicable in the plant patterns of life. Emphasis on the vascular plants. Prerequisite(s): BIO 152.

BIO 314L. Plant Biology Laboratory. 1 Hour

Emphasis on generalized structure and function of plants. One three-hour laboratory per week. Corequisite(s): BIO 314.

BIO 320. Marine Biology. 2 Hours

Introduction to the diversity of marine life including the physical-chemical environment. Prerequisite(s): Permission of instructor. . Corequisite(s): BIO 320L.

BIO 320L. Marine Biology Laboratory. 2 Hours

Examination of marine organisms and processes. Laboratory work conducted on UD campus and at off-campus field sites in the southern United States or Hawaii. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 320.

BIO 330. Animal Behavior. 3 Hours

An evolutionary approach to the study of animal behavior, emphasizing both proximate mechanisms and functional explanations of the survival value of behavior. Prerequisite(s): BIO 152.

BIO 330L. Animal Behavior Laboratory. 1 Hour

Analysis of animal behavior using various animal models. One three-hour laboratory per week and occasional Saturday field trips. Corequisite(s): BIO 330.

BIO 340. Culture, Biodiversity & Resources Management. 3 Hours

Field lecture course addressing cultural impacts on biodiversity and conciliatory demands for resource management to preserve the integrity of unique global environments. An experiential study of culture, regional geological morphology and weather-patterns, economic development, the freshwater-marine continuum, resource utilization, environmental law and management on conservation of unique biological habitats and organisms. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 340L.

BIO 340L. Culture, Biodiversity & Resources Management Laboratory. 1 Hour

Lab field course on culture, biodiversity and balanced resource management to preserve integrity of unique global environments and compromises with economic development. Assessment of biodiversity in diverse biomes (e.g. elevational and rainforest-desert gradients, watersheds, coral reef systems) will be assessed with experimental design, data collection and analysis. May fulfill only one laboratory requirement for the Biology major. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 340.

BIO 350. Applied Microbiology. 3 Hours

Fundamentals of applied and environmental microbiology for environmental scientists and engineers. Introduction to microorganisms and their role in bioenvironmental engineering and industrial processes. No science credit for biology majors. Prerequisite(s): BIO 152; CHM 314.

BIO 350L. Applied Microbiology Laboratory. 1 Hour

An introductory laboratory to acquaint students with basic microbiology laboratory techniques as applied to environmental pollution and industrial fermentations. One three-hour laboratory per week. Corequisite(s): BIO 350.

BIO 359. Sustainability & the Biosphere. 3 Hours

Study of the principles of sustainability. All areas of sustainability will be covered with emphasis on ecological facets of sustainability. Discussion of loss of habitat and biodiversity in the context of sustaining natural resources for future generations. Prerequisite(s): BIO 152 or SCI 230.

BIO 360. Island Environmental Biology. 3 Hours

Field lecture course on environments of Pacific Islands. Study of volcanic geology, island morphology/weather-patterns, native culture, economic development, freshwater-marine continuum and water resource utilization on unique biological habitats. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 360L.

BIO 360L. Island Environmental Biology Laboratory. 1-2 Hours

Lab field course on Pacific Islands. Ecology of elevational and rainforest-desert gradients, volcanic mountain streams, watersheds, and coral systems with experimental design, data collection and analysis. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 360.

BIO 370. Conservation Biology. 3 Hours

An ecosystem approach to the study of and threat to local, regional, and global biodiversity. Application of ecological principles of conservation of species and habitats. Prerequisite(s): BIO 152.

BIO 395. Global Environmental Biology. 3 Hours

Presentation of the biological and ecological principles needed for the critical discussion and evaluation of current global issues related to human impact on the environment. Ecological data on the current extinction crisis and sustainable solutions will be addressed. No credit toward a biology major or minor. Prerequisite(s): BIO 101, BIO 151 or SCI 230.

BIO 402. Vertebrate Zoology. 3 Hours

The morphology, physiology, ecology, and distribution of representative vertebrate groups. Prerequisite(s): BIO 310 or BIO 312.

BIO 402L. Vertebrate Zoology Laboratory. 1 Hour

Laboratory focused on the diversity, systematics and ecology of vertebrates. One three-hour laboratory per week. Corequisite(s): BIO 402.

BIO 403. Physiology I. 3 Hours

Physical-chemical examination of the physiological events occurring in a living system with emphasis on physiology of the cell, excretion, nerves, muscles, bone, blood, heart, circulation, and respiration. Prerequisite(s): BIO 152; CHM 314.

BIO 403L. Physiology Laboratory I. 1 Hour

Systematic approach to the acquisition and interpretation of information about the physiology of living systems. One three-hour laboratory per week. Corequisite(s): BIO 403.

BIO 404. Physiology II. 3 Hours

Integrated systems based examination of physiological processes in humans with a special emphasis on molecular mechanisms of pathophysiological conditions in humans and experimental animal systems. Prerequisite(s): BIO 403.

BIO 407. Plant Diversity & Ecology. 3 Hours

Lecture course addressing plant diversity and ecology. Course includes an overview of plant systematics and aspects of plant anatomy, population ecology, community ecology, ecosystem ecology, and global ecology. Prerequisite(s): BIO 310.

BIO 407L. Plant Diversity & Ecology Laboratory. 1 Hour

Field laboratory course addressing plant diversity and ecology. Includes a series of field labs focused on plant identification, followed by labs focused on quantitatively assessing plants, plant communities, and ecosystems. Labs will take place in a variety of natural areas. Corequisite(s): BIO 407.

BIO 409. Ecological Restoration. 3 Hours

Principles and practices of ecological restoration. The course presents the rationale and knowledge needed to understand, appreciate, plan and perform ecological restoration. Prerequisite(s): BIO 310.

BIO 409L. Ecological Restoration Laboratory. 1 Hour

Practical applications of the principles of ecological restoration to a variety of ecosystems. One three-hour laboratory per week. Corequisite(s): BIO 409.

BIO 411. General Microbiology. 3 Hours

Introductory course stressing the physiology, cultivation, and classification of microbial organisms; their role in medicine, agriculture, and industry. Prerequisite(s): BIO 152; CHM 313.

BIO 411L. General Microbiology Laboratory. 1 Hour

Lab exercises focusing on the basic techniques involved in the isolation and identification of bacteria, including assessment of biochemical activities, growth characteristics of bacteria, and the impact of the environment on microbial growth. One three-hour laboratory per week. Corequisite(s): BIO 411.

BIO 412. Genetics Human Diseases. 3 Hours

Study of the molecular genetics of inherited human diseases using a systems approach. Survey of inherited diseases linked to major organs and organ systems. Prerequisite(s): BIO 312; CHM 313.

BIO 415. Neurobiology. 3 Hours

Structure and function of the brain and nervous system. Emphasis on understanding cellular and molecular events within the nervous system using model organisms. Prerequisite(s): BIO 152; CHM 124.

BIO 420. Biology Capstone Seminar. 1 Hour

Seminar course designed to further develop students' ability to communicate and synthesize within their discipline and prepare them for their chosen career paths in the Biological and Environmental professions. All class activities, including presentations, relate to key issues facing society today in addition to continued career development skills. Biology core and capstone course. Prerequisite(s): BIO 299, BIO 310, BIO 312.

BIO 421. Biological Problems. 1-2 Hours

Laboratory research problems. Topics arranged with faculty advisors. Prerequisite(s): (BIO 310 or BIO 312); Permission of department chairperson.

BIO 422. Biological Problems. 1-2 Hours

Library research problems. Topics arranged with faculty advisors. Prerequisite(s): (BIO 310 or BIO 312); Permission of department chairperson.

BIO 425. Parasitology. 3 Hours

Introduction to the morphology, life history, and clinical significance of parasites and other symbionts. Prerequisite(s): BIO 310 or BIO 312.

BIO 425L. Parasitology Laboratory. 1 Hour

Recognition of common human parasites. Study of both living and preserved forms. One three-hour laboratory per week. Corequisite(s): BIO 425.

BIO 427. Immunology. 3 Hours

Discussions of antigens, antibodies, antigenicity, immunogenicity, and antigen-antibody reactions including hypersensitivity, immune tolerance, and transplants. Prerequisite(s): (BIO 403 or BIO 411 or BIO 440 or BIO 442) or CHM 420.

BIO 435. Microbial Ecology. 3 Hours

Study of the diversity and activity of microorganisms and the interrelationships between microorganisms and their environments with emphasis on aquatic ecosystems. Prerequisite(s): BIO 411; CHM 314.

BIO 435L. Microbial Ecology Laboratory. 1 Hour

Examination of the methods of isolation and enumeration of microorganisms and techniques for determining their activities in the field and laboratory. One three-hour laboratory per week. Corequisite(s): BIO 435.

BIO 439. Analysis & Interpretation of Biological Data. 3 Hours

Introducing the nature of some of the important types of data that are generated in biological research, the databases that warehouse such data, the principles involved in the analysis of such data, the use of appropriate software to analyze such data, and the biological interpretation of the results of analysis. Prerequisite(s): BIO 152.

BIO 440. Cell Biology. 3 Hours

Study of the function, structure, composition, heredity, and growth of cells. Analysis of cell concepts in biochemical terms. Prerequisite(s): BIO 152; CHM 314.

BIO 440L. Cell Biology Laboratory. 1 Hour

Experimental approaches to explore modern concepts in cell structure, function, and biology. One three-hour laboratory per week. Corequisite(s): BIO 440.

BIO 441. Environmental Plant Biology. 3 Hours

Study of the physiological basis for environmental effects on plant metabolism, structure, growth and development, including plant responses to elevated carbon dioxide, acid deposition, and water stress. Prerequisite(s): BIO 310 or BIO 312.

BIO 442. Developmental Biology. 3 Hours

Study of animal development, including morphological patterns of development, mechanisms of cellular differentiation, cell-cell interactions during development, and mechanisms of differential gene expression. Emphasis on understanding development at the cellular and molecular levels. Prerequisite(s): BIO 152; CHM 314.

BIO 442L. Developmental Biology Laboratory. 1 Hour

Exploration of the development of key model organisms from the morphological and molecular perspectives with an emphasis on basic developmental laboratory techniques. One three-hour laboratory per week. Corequisite(s): BIO 442.

BIO 444. Plant Diversity. 3 Hours

Broad survey of the major divisions of the plant kingdom; consideration of algae, fungi, bryophytes, vascular plant groups; includes generalized life histories, ecological and physiological characteristics, and evolutionary relationships. Prerequisite(s): BIO 310.

BIO 444L. Plant Diversity Laboratory. 1 Hour

Laboratory studies of the plant groups, including life cycles and evolutionary, physiological, and ecological adaptations. One three-hour laboratory per week. Corequisite(s): BIO 444.

BIO 445. Evolution & Development. 3 Hours

Molecular and population genetic examination of the evolution of animal form. Topics include comparative developmental biology, population genetics, and molecular evolution. Prerequisite(s): BIO 312.

BIO 450. Comparative Animal Physiology. 3 Hours

Organized on a function-system basis, course dealing with environment-organism interaction and with integrative systems of the principle phyla of animals. Prerequisite(s): (BIO 310 or BIO 312); CHM 124.

BIO 450L. Comparative Animal Physiology Laboratory. 1 Hour

Examination of physiological responses to the physical environment. Variations of the physical environment are examined in the field. Study of animals under controlled laboratory conditions with experimental design, data collection and analysis to assess physiological adaptations. One three-hour laboratory or field trip per week. Corequisite(s): BIO 450.

BIO 452. Biology of Rivers & Lakes. 3 Hours

The biological interrelationships of organisms in rivers, streams, lakes and ponds including biodiversity, ecological/evolutionary adaptations and structure of aquatic ecosystems. Prerequisite(s): BIO 310.

BIO 452L. Biology of Rivers & Lakes Laboratory. 1 Hour

Laboratory and field exercises emphasizing the biological, chemical and physical attributes of freshwater ecological systems. One three-hour laboratory or field trip per week. Corequisite(s): BIO 452.

BIO 459. Environmental Ecology. 3 Hours

The application of current ecological knowledge and principles toward the study of human impact on the environment. Emphasis on ecosystem dynamics, applied ecology, disturbance ecology, and approaches to solving global environmental problems. Prerequisite(s): BIO 310.

BIO 459L. Environmental Ecology Laboratory. 1 Hour

Analytical approach to studying applied ecology and human impact on the environment. Emphasis on laboratory and field approaches to solving environmental problems through the use of ecological principles. One three-hour laboratory per week. Corequisite(s): BIO 459.

BIO 460. Introduction to Bioinformatics. 3 Hours

This course introduces the concepts involved in bioinformatics, using the appropriate material from the disciplines of biology, chemistry and computer science, among others. Prerequisite(s): BIO 152.

BIO 461. Invertebrate Zoology. 3 Hours

Survey of the structure, activities, life histories, and relationships of the invertebrate animals, with some emphasis on their origin and development. Prerequisite(s): BIO 310 or BIO 312.

BIO 461L. Invertebrate Zoology Laboratory. 1 Hour

Examination of the structure and function of the major invertebrate phyla. Survey of representative animals with an emphasis on observational skills for analysis of the structural adaptations of live animals. One three-hour laboratory per week. Corequisite(s): BIO 461.

BIO 462. Molecular Biology. 3 Hours

Analysis of the nature of the gene and gene action. Particular attention to genetic regulation and to recent advances in molecular genetics. Prerequisite(s): BIO 312; CHM 314.

BIO 465. Disease Ecology. 3 Hours

Examination of ecological factors affecting the emergence and dynamics of infectious diseases of humans and wildlife. History and overview of how diseases are often a product of populations, communities, ecosystems, and global systems. Includes an introduction to epidemiology and current molecular and geographic information system techniques used to study these integrated systems. Prerequisite(s): (BIO 310, BIO 411) or permission of department chairperson or instructor.

BIO 466. Biology of Infectious Disease. 3 Hours

The nature of infectious diseases, host-parasite relationships in resistance and infection, defense mechanism (antigen-antibody response); survey of the bacteria causing disease in humans. Prerequisite(s): BIO 411.

BIO 470. Cancer Biology. 3 Hours

Study of growth patterns and causes of cancer at the cellular and molecular levels. Discussion of the hereditary and environmental factors that contribute to the development of the disease in cancer patients. Description of the research being conducted to understand and cure the disease. Prerequisite(s): BIO 403 or BIO 440.

BIO 475. Human Anatomy. 3 Hours

Study of the fundamental principles of human gross anatomy with emphasis on all organ systems. Prerequisite(s): BIO 152; CHM 314.

BIO 475L. Human Anatomy Laboratory. 1 Hour

Study of human gross anatomy emphasizing all organs systems using computer-assisted dissection, anatomical human models and occasional dissection of nonhuman cadaver organs. One three-hour laboratory per week. Corequisite(s): BIO 475.

BIO 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

BIO 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

BIO 479L. Environmental Instrumentation Laboratory. 2 Hours

The understanding and use of field- and laboratory-based equipment to study current environmental issues. Emphasis on team-centered approaches to investigating environmental problems. Same as GEO 479L. One five-hour laboratory or field trip per week. Prerequisite(s): BIO 310; GEO 116.

BIO 480. Principles of Microscopy. 3 Hours

Focus on basic principles and theory of light and electron microscopy, and how these techniques address fundamental questions in science. Prerequisite(s): BIO 152.

BIO 480L. Principles of Microscopy Laboratory. 1 Hour

Application and practice of light and electron microscopy. One three-hour laboratory per week. Corequisite(s): BIO 480.

BIO 489. Mycology. 3 Hours

Introductory course stressing the interrelationship between fungi and the rest of the biological world. Emphasis on the basic biology and ecology of fungi, decomposition, species interactions, plant pathology and medical mycology. Prerequisite(s): BIO 152.

BIO 496. Special Topics in Biology. 1-3 Hours

Lecture course addressing advanced topics in biology. Topics are variable depending on faculty teaching the course and the course aims. Students should consult the class schedule. May be repeated. Prerequisite(s): BIO 151, BIO 152.

BIO 499. Environmental Biology Internship. 3 Hours

Majors will have the opportunity to obtain valuable training and experience under the mentorship of established scientists and professionals. Emphasis on approaches to solving environmental problems including such research areas as bioremediation, risk assessment, and ecological restoration. May be repeated up to six semester hours. No science credit for biology majors. Prerequisite(s): Permission of Environmental Biology Program Coordinator.

- Bachelor of Arts, Chemistry (p. 139)
- Bachelor of Science, Biochemistry (p. 139)
- Bachelor of Science, Chemistry (p. 140)
- Bachelor of Science, Medicinal-Pharmaceutical Chemistry (p. 141)

Minor:

- Chemistry (p. 142)

The B.S. in Chemistry (BS-CHM) program is approved by the American Chemical Society for the training of professional chemists, and provides students with the opportunity to perform an original research project under the direction of a faculty mentor. BS-CHM majors electing to perform research typically select their faculty mentor and project during the first term of their junior year. The research project may be conducted over the entire senior year, but is more commonly conducted over a ten-week period during the summer following the junior year. In either case, the project culminates in the senior year with enrollment in CHM 498, the submission of an acceptable thesis, and the presentation of a seminar in CHM 497. Additional research work to a maximum total of six semester hours may be elected provided the work extends beyond two semesters.

The B.S. in Biochemistry (BCM) program prepares students for careers in the biochemical and life sciences. BCM majors may elect to conduct an original research project in biochemistry or a related chemical sub-discipline. In all other respects these biochemically-related research projects are identical to those detailed for the BS-CHM program above.

The B.S. in Medicinal-Pharmaceutical Chemistry (MCM) program is designed for students pursuing careers in medicine, pharmacy or forensic chemistry, and provides a focused preparation in the analysis and synthesis of compounds of pharmacological significance. MCM majors may elect to conduct an original research project, typically in synthetic or analytical chemistry. In all other respects these research projects are identical to those detailed for the BS-CHM program above.

The B.A. in Chemistry (BA-CHM) program prepares students for a wide range of interdisciplinary professions, and consists of a curriculum in which the traditional B.S. curriculum has been modified, most notably in mathematics, physics, and advanced chemistry. The BA-CHM program is accordingly somewhat flexible, and affords students a wide selection of courses in the humanities and social sciences. BA-CHM majors are free to choose courses which prepare them for careers in medicine, dentistry, optometry, veterinary medicine, biochemistry, education, law, and other professions which require a science background.

A minor in chemistry consists of twenty semester hours. Typically these consist of 8 credit hours of general chemistry (CHM 123, 123L, 124, 124L), 8 credit hours of organic chemistry (CHM 313, 313L, 314, 314L), 3 credit hours of physical chemistry (CHM 302, 303 or 304), and one credit hour in basic molecular spectroscopy (CHM 317). Of these, the physical chemistry course is the only requirement.

Faculty

David Johnson, Chairperson

Professors Emeriti: Fratini, Keil, Knachel, Morrow, Singer

Professor: S. Swavey

Associate Professors: Benin, Church, Crosson, Johnson, Lopper, Masthay

Assistant Professors: Erb, Kovacs, Mammana

Lecturers: Trick, Turner

Lab Instructors: DeBeer, Eckerle, Gunawan, Hils, Piegrass, R. Swavey

Chemistry

Majors:

Bachelor of Arts, Chemistry (CHM) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variabl credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variabl credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics (Satisfies CAP Mathematics)	9
MTH 148 Introductory Calculus I & MTH 149 and Introductory Calculus II	
MTH 367 Statistical Methods I	
Natural Sciences (Applies to CAP Natural Science)	8
PHY 201 College Physics I & 201L and College Physics Laboratory I	
PHY 202 General Physics & 202L and General Physics Laboratory	
Social Sciences (Includes CAP Social Science)	12

Major Requirements ¹ 38

CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CHM 201 & 201L	Quantitative Analysis and Quantitative Analysis Laboratory	4
CHM 302	Physical Chemistry	3-6
or CHM 303 & CHM 304	Physical Chemistry and Physical Chemistry	
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 480	Professional Practices Seminar	1
CHM 490	Seminar IV (Satisfies CAP Major Capstone)	1
Select four courses from: ²		10-13
CHM 317	Spectroscopic Identification of Organic Compounds	
CHM 341	Environmental Chemistry	
CHM 404	Special Topics in Physical Chemistry	
CHM 412	Intermediate Organic Chemistry	
CHM 415	Analytical Chemistry	
CHM 415L	Analytical Chemistry Laboratory	
CHM 417	Inorganic Chemistry	
CHM 418L	Inorganic Chemistry Laboratory	
CHM 420	Biochemistry	
CHM 426	Biosynthetic Organic Chemistry	
CHM 427	Medicinal Chemistry	
CHM 451	General Biochemistry I	
CHM 452	General Biochemistry II	
CHM 462L	Biochemistry Laboratory	
CHM 477 & CHM 478	Honors Thesis Project and Honors Thesis Project	
CHM 497 & CHM 498	Research Seminar and Research & Thesis	
CHM 499	Research & Thesis	

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

¹ Advanced placement is permitted.

² May substitute two upper level courses from other science departments with permission of chairperson.

Bachelor of Science, Biochemistry (BCM) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	

Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

CPS 132	Computer Programming for Engineering & Science	3
MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
PHY 206	General Physics I - Mechanics	3
PHY 207	General Physics II - Electricity & Magnetism	3
PHY 201L	College Physics Laboratory I	1
Select courses from:		10
BIO 312	General Genetics	
BIO 314	Plant Biology	
BIO 403	Physiology I	
BIO 404	Physiology II	
BIO 411	General Microbiology	
BIO 427	Immunology	
BIO 440	Cell Biology	
BIO 462	Molecular Biology	
BIO 466	Biology of Infectious Disease	
CHM 404	Special Topics in Physical Chemistry	
CHM 412	Intermediate Organic Chemistry	
CHM 415 & 415L	Analytical Chemistry and Analytical Chemistry Laboratory	
CHM 417	Inorganic Chemistry	
CHM 418L	Inorganic Chemistry Laboratory	
CHM 426	Biosynthetic Organic Chemistry	
CHM 427	Medicinal Chemistry	

CHM 497 & CHM 498	Research Seminar and Research & Thesis	
CHM 499	Research & Thesis	

Major Requirements¹ 47

Satisfies CAP Natural Science		
Year 1		
BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152	Concepts of Biology II: Evolution & Ecology	3
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
Year 2		
CHM 201 & 201L	Quantitative Analysis and Quantitative Analysis Laboratory	4
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
BIO Elective and Laboratory		4
Year 3		
CHM 303 & 303L	Physical Chemistry and Physical Chemistry Laboratory	4
CHM 304	Physical Chemistry	3
CHM 451	General Biochemistry I	3
CHM 452	General Biochemistry II	3
CHM 462L	Biochemistry Laboratory	1
CHM 495	Introduction to Research Seminar	0
Year 4		
CHM 480	Professional Practices Seminar	1
CHM 490	Seminar IV (Satisfies CAP Major Capstone)	1

Breadth

ASI 150	Introduction to the University Experience	1
Foreign Language		6-8
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

¹ Advanced placement is permitted.

Bachelor of Science, Chemistry (CHM) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	

Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

Mathematics, Computer Sciences ¹	15
CPS 132 Computer Programming for Engineering & Science	
MTH 168 Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	
MTH 169 Analytic Geometry & Calculus II	
MTH 218 Analytic Geometry & Calculus III	
PHY 206 General Physics I - Mechanics (Applies to CAP Natural Science)	3
PHY 207 General Physics II - Electricity & Magnetism	3
PHY 208 General Physics II I- Thermodynamics, Waves, and Fluids	3
PHY 210L General Physics Laboratory I	1
PHY 211L General Physics Laboratory II	1

Major Requirements ²

Year 1	51
CHM 123 & 123L General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L General Chemistry and General Chemistry Laboratory	4
Year 2	
CHM 201 & 201L Quantitative Analysis and Quantitative Analysis Laboratory	4
CHM 313 & 313L Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L Organic Chemistry and Organic Chemistry Laboratory	4
Year 3	

CHM 303 & 303L Physical Chemistry and Physical Chemistry Laboratory	4
CHM 304 & 304L Physical Chemistry and Physical Chemistry Laboratory	4
CHM 317 Spectroscopic Identification of Organic Compounds	1
CHM 417 Inorganic Chemistry	3
CHM 418L Inorganic Chemistry Laboratory	1
CHM 495 Introduction to Research Seminar	0
Year 4	
CHM 415 & 415L Analytical Chemistry and Analytical Chemistry Laboratory	4
CHM 420 Biochemistry	3
or CHM 451 & CHM 452 General Biochemistry I and General Biochemistry II	
CHM 480 Professional Practices Seminar	1
CHM 490 Seminar IV (Satisfies CAP Major Capstone)	1
Select three courses from: ³	9
CHM 404 Special Topics in Physical Chemistry	
CHM 412 Intermediate Organic Chemistry	
CHM 426 Biosynthetic Organic Chemistry	
CHM 427 Medicinal Chemistry	
CHM 462L Biochemistry Laboratory	
CHM 477 & CHM 478 Honors Thesis Project and Honors Thesis Project	
CHM 497 & CHM 498 Research Seminar and Research & Thesis	
CHM 499 Research & Thesis	

Breadth

ASI 150 Introduction to the University Experience	1
Foreign Language	6-8
Social and Behavioral Sciences (Includes CAP Social Science)	6
Total Hours to total at least	120

¹ Should be completed during the first two years.

² Advanced placement is permitted.

³ May substitute one approved science course from another department.

Bachelor of Science, Medicinal-Pharmaceutical Chemistry (MCM) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3

CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variab credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variab credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

Satisfies CAP Mathematics and CAP Natural Science

BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II	6
MTH 367	Statistical Methods I	3
PHY 201 & 201L	College Physics I and College Physics Laboratory I	4
PHY 202 & 202L	General Physics and General Physics Laboratory	4

Major Requirements^{2,3} 55

Year 1		
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
Year 2		
CHM 201 & 201L	Quantitative Analysis and Quantitative Analysis Laboratory	4
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
Year 3		
CHM 302 & 302L	Physical Chemistry and Physical Chemistry Laboratory ¹	4

CHM 317	Spectroscopic Identification of Organic Compounds	1
CHM 420	Biochemistry ⁴	3
CHM 462L	Biochemistry Laboratory	1
CHM 495	Introduction to Research Seminar	0
Year 4		
CHM 319L	Advanced Organic Synthesis Laboratory	1
CHM 426	Biosynthetic Organic Chemistry	3
CHM 427	Medicinal Chemistry	3
CHM 454	Rational Drug Design	3
CHM 463L	Bioanalytical Chemistry Laboratory	1
CHM 480	Professional Practices Seminar	1
CHM 490	Seminar IV (Satisfies CAP Major Capstone)	1

Science Requirements 13

Select six semester hours from:⁵

CHM 412	Intermediate Organic Chemistry	
CHM 415 & 415L	Analytical Chemistry and Analytical Chemistry Laboratory	
CHM 417	Inorganic Chemistry	
CHM 418L	Inorganic Chemistry Laboratory	
CHM 497 & CHM 498	Research Seminar and Research & Thesis	

Select two lecture courses and one laboratory from:

BIO 403 & 403L	Physiology I and Physiology Laboratory I	
BIO 411 & 411L	General Microbiology and General Microbiology Laboratory	
BIO 440 & 440L	Cell Biology and Cell Biology Laboratory	

Breadth⁶

ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

¹ Substitution of more advanced courses is possible upon consultation with the Department of Chemistry chairperson.

² Consult General Requirements for all Bachelor of Science programs and the Common Academic Program requirements.

³ Advanced placement is permitted.

⁴ Biochemistry courses CHM 451 and CHM 452 may be substituted, with CHM 452 counting as a general elective.

⁵ Chemistry graduate courses or advanced electives from other departments may be selected with the permission of the Department of Chemistry chairperson.

⁶ If composition requirement is waived, the student should seek the English elective. Advanced writing courses are recommended.

Minor in Chemistry (CHM)

Chemistry

CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CHM 302	Physical Chemistry	3

or CHM 303 Physical Chemistry
 Select three CHM courses (300/400 level) ¹ 9

¹ In consultation with the chairperson.

- Bachelor of Arts, Chemistry (p. 139)
- Bachelor of Science, Medicinal-Pharmaceutical Chemistry (p. 143)
- Bachelor of Science, Biochemistry (p. 144)
- Bachelor of Science, Chemistry (p. 140)

Bachelor of Arts, Chemistry

First Year

Fall	Hours Spring	Hours
ASI 150	1 CHM 124 & 124L	4
CHM 123 & 123L	4 MTH 149	3
MTH 148 (Satisfies CAP Mathematics)	3 ENG 100 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 Lauguage 101	4
Social Science - intro level	3	
	17	17

Second Year

Fall	Hours Spring	Hours
CHM 313 & 313L	4 CHM 201 & 201L	4
MTH 367	3 CHM 314 & 314L	4
ENG 200 (CAP Writing Seminar)	3 CMM 100 (CAP Communication)	3
Social Science - 300/400 level	3 Literature	3
Language 141	4 Language 201 or contextual course	3
	17	17

Third Year

Fall	Hours Spring	Hours
CHM 302	3 PHY 202	3
PHY 201 & 201L (CAP Natural Science)	4 PHY 202L	1
CHM elective	3 CHM elective	3
CAP Faith Traditions	3 CAP Arts / Creative and Performing	3
Social Science - elective	3 SSC 200 (CAP Social Science)	3
	CAP Advanced Philosophy/Religious Studies	3
	16	16

Fourth Year

Fall	Hours Spring	Hours
CHM 480	1 CHM 490 (Satisfies CAP Major Capstone)	1
CHM elective	3 CHM elective	3
CAP Inquiry	3 CAP Integrative	3
CAP Advanced Philosophy/Religious Studies	3 CAP Practical Ethical Action	3
CAP Advanced Historical Studies	3 CAP Diversity and Social Justice	3
General Elective	3 General Elective (optional)	3
	16	16

Total credit hours: 132

Bachelor of Science, Medicinal-Pharmaceutical Chemistry

First Year

Fall	Hours Spring	Hours
ASI 150	1 CHM 124 & 124L	4
CHM 123 & 123L	4 BIO 152 & 152L	4
BIO 151 & 151L (CAP Natural Science)	4 MTH 149	3
MTH 148 (Satisfies CAP Mathematics)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
	15	17

Second Year

Fall	Hours Spring	Hours
CHM 201 & 201L	4 PHY 202 & 202L	4
CHM 313 & 313L	4 MTH 367	3
PHY 201 & 201L (CAP Natural Science w/lab)	4 CHM 314 & 314L	4
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 ENG 200 (CAP Writing Seminar)	3
SSC 200 (CAP Social Science)	3 CMM 100 (CAP Communication)	3
	18	17

Third Year

Fall	Hours Spring	Hours
CHM 302 & CHM 303L	4 CHM 420 & CHM 462L	4
CHM 317	1 CHM 495	0
CHM elective	3 CHM elective	3
BIO elective and lab	4 BIO elective	3
CAP Faith Traditions	3 CAP Arts	3

	Social Science - elective	3	
		15	16
Fourth Year			
Fall	Hours Spring	Hours	
CHM 426	3 CHM 454	3	
CHM 319L	1 CHM 463L	1	
CHM 427	3 CHM 490 (Satisfies CAP Major Capstone)	1	
CHM 480	1 CAP Practical Ethical Action	3	
CAP Inquiry	3 CAP Integrative	3	
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3	
CAP Advanced Historical Studies	3 CAP Advanced Philosophy/Religious Studies	3	
		17	17

Total credit hours: 132

Bachelor of Science, Biochemistry

First Year			
Fall	Hours Spring	Hours	
ASI 150	1 CHM 124 & 124L	4	
CHM 123 & 123L	4 BIO 152	3	
BIO 151 & 151L (CAP Natural Science)	4 MTH 169	4	
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
MTH 168 (Satisfies CAP Mathematics)	4 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
		16	17
Second Year			
Fall	Hours Spring	Hours	
CHM 201 & 201L	4 CHM 314 & 314L	4	
CHM 313 & 313L	4 CPS 132	3	
MTH 218	4 ENG 200 (CAP Writing Seminar)	3	
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3	
	BIO elective w/lab	4	
		15	17
Third Year			
Fall	Hours Spring	Hours	
CHM 303 & 303L	4 CHM 304	3	

CHM 451	3 CHM 452 & CHM 462L	4
PHY 206 & PHY 210L (CAP Natural Science w/lab)	4 CHM 495	0
CAP Arts Language	3 PHY 207	3
	4 SSC 200 (CAP Social Science)	3
	Language	4
		18
		17

Fourth Year			
Fall	Hours Spring	Hours	
CHM 480	1 CHM 497	0	
BIO/CHM elective w/lab	4 CHM 490 (Satisfies CAP Major Capstone)	1	
BIO/CHM elective	3 BIO/CHM elective	3	
CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3 CAP Integrative	3	
CAP Inquiry	3 CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3	
Social Science - elective	3 CAP Advanced Historical Studies	3	
	CAP Diversity and Social Justice	3	
		17	
		16	

Total credit hours: 133

Bachelor of Science, Chemistry

First Year			
Fall	Hours Spring	Hours	
ASI 150	1 CHM 124 & 124L	4	
CHM 123 & 123L	4 MTH 169	4	
MTH 168 (Satisfies CAP Mathematics)	4 CMM 100 (CAP Communication)	3	
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 Language 101	4	
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3		
		18	
		18	
Second Year			
Fall	Hours Spring	Hours	
CHM 201 & 201L	4 CHM 314 & 314L	4	
CHM 313 & 313L	4 CPS 132	3	

MTH 218	4	PHY 206 & PHY 210L (CAP Natural Science w/ lab)	4
Language 141	4	ENG 200 (CAP Writing Seminar)	3
		CAP Faith Traditions	3
<hr/>			17
	16		

Third Year

Fall	Hours	Spring	Hours
CHM 303 & 303L	4	CHM 304 & 304L	4
PHY 207 & PHY 211L	4	CHM 317	1
CHM elective	3	CHM 417 & CHM 418L	4
CAP Arts	3	CHM 495	0
SSC 200 (CAP Social Science)	3	CAP Advanced Historical Studies	3
		Social Science - elective	3
<hr/>			15
	17		

Fourth Year

Fall	Hours	Spring	Hours
CHM 415 & 415L	4	CHM 420	3
CHM 480	1	CHM 497	0
CHM elective	3	CHM 490 (Satisfies CAP Major Capstone)	1
CAP Practical Ethical Action	3	CHM elective	3
CAP Inquiry	3	CAP Integrative	3
CAP Advanced Philosophy/Religious Studies	3	CAP Diversity and Social Justice	3
		CAP Advanced Philosophy/ Religious Studies	3
<hr/>			16
	17		

Total credit hours: 134

Courses**CHM 115. College Preparatory Chemistry. 3 Hours**

One-term course for students desiring to enter a science or engineering program but whose background is insufficient for CHM 123 and CHM 124. Unacceptable for credit toward chemistry requirements in any chemistry program.

CHM 115L. College Preparatory Chemistry Laboratory. 1 Hour

Course to accompany CHM 115 or to be elected by students in CHM 200 who lack previous chemistry laboratory experience. One three-hour laboratory each week.

CHM 123. General Chemistry. 3 Hours

Comprehensive treatment of the fundamentals of general chemistry. Prerequisite(s): One year of high school chemistry or equivalent.

CHM 123L. General Chemistry Laboratory. 1 Hour

Laboratory course to complement CHM 123. One three-hour laboratory session each week. Corequisite(s): CHM 123.

CHM 124. General Chemistry. 3 Hours

Comprehensive treatment of the fundamentals of general chemistry. Prerequisite(s): CHM 123.

CHM 124L. General Chemistry Laboratory. 1 Hour

Laboratory course to complement CHM 124. One three-hour laboratory session each week. Prerequisite(s): CHM 123L Corequisite(s): CHM 124.

CHM 190. Seminar I. 0 Hours

Overview of methods of scientific oral presentation and formal conversation within the molecular sciences professional community.

CHM 200. Chemistry & Society. 3 Hours

Course for nonscience majors. The application of chemical principles to the examination of issues such as environmental quality, disease, hunger, synthetic materials, and law enforcement. Depending upon background and experience, a student needing a laboratory course may enroll in either CHM 115L or CHM 123L. Prerequisite(s): One year of high school chemistry or equivalent.

CHM 201. Quantitative Analysis. 3 Hours

Application of the principles of chemical equilibrium to the theory and techniques of gravimetric, volumetric, spectrophotometric, and electroanalytical methods of chemical analysis. Prerequisite(s): CHM 124, CHM 124L.

CHM 201L. Quantitative Analysis Laboratory. 1 Hour

Course to accompany CHM 201. One three-hour laboratory period each week.

CHM 234. Energy Resources. 3 Hours

The chemical and geological aspects of formation, production, and benefits/costs (including environmental impacts) of energy derived from fossil fuels (coal and hydrocarbons), biofuels (e.g., ethanol production), radioactive materials (nuclear power), and renewable sources (e.g., geothermal, hydro, wind, and solar power). Prerequisite(s): CHM 123, CHM 124. Corequisite(s): GEO 208.

CHM 290. Seminar II. 0 Hours

Overview of methods of scientific oral presentation and formal conversation within the molecular sciences professional community.

CHM 302. Physical Chemistry. 3 Hours

Essential elements of thermodynamics, chemical kinetics, equilibria, and electrochemistry for those with a primary interest in the life sciences. For B.A. chemistry majors and premedical, pre dental, and biology majors. Prerequisite(s): CHM 124.

CHM 302L. Physical Chemistry Laboratory. 1 Hour

Course to accompany CHM 302. One three-hour laboratory each week. Prerequisite(s): CHM 201, CHM 201L. Corequisite(s): CHM 302.

CHM 303. Physical Chemistry. 3 Hours

Fundamentals of thermodynamics, chemical kinetics, electrochemistry, and spectroscopy with a mathematics format. For B.S. chemistry and biochemistry majors and chemical engineers. Prerequisite(s): CHM 201 or equivalent. Corequisite(s): MTH 218.

CHM 303L. Physical Chemistry Laboratory. 1 Hour

Course to accompany CHM 303. One three-hour laboratory each week. Prerequisite(s): MTH 218.

CHM 304. Physical Chemistry. 3 Hours

Fundamentals of thermodynamics, chemical kinetics, electrochemistry, and spectroscopy with a mathematics format. For B.S. chemistry and biochemistry majors and chemical engineers.

CHM 304L. Physical Chemistry Laboratory. 1 Hour

Course to accompany CHM 304. One three-hour laboratory each week. Corequisite(s): MTH 218.

CHM 313. Organic Chemistry. 3 Hours

Major topics in organic chemistry including synthesis, mechanisms, stereochemistry, and spectroscopy. Required of all chemistry majors and students in the life sciences. Prerequisite(s): CHM 124.

CHM 313L. Organic Chemistry Laboratory. 1 Hour

Common separation, purification, and analytical techniques including chromatography and spectroscopy. One three-hour laboratory each week. Prerequisite(s): CHM 124, 124L Corequisite(s): CHM 313.

CHM 314. Organic Chemistry. 3 Hours

Major topics in organic chemistry including synthesis, mechanisms, stereochemistry, and spectroscopy. Required of all chemistry majors and students in the life sciences. Prerequisite(s): CHM 313.

CHM 314L. Organic Chemistry Laboratory. 1 Hour

Synthesis and characterization of organic materials utilizing skills from CHM 313L. One three-hour laboratory each week. Prerequisite(s): CHM 313L. Corequisite(s): CHM 314.

CHM 317. Spectroscopic Identification of Organic Compounds. 1 Hour

The use of nuclear magnetic resonance, infrared, and mass spectrometry in elucidating structures. Emphasis on interpretation and integration of spectral data in problem solving. Prerequisite(s): (CHM 314, CHM 314L) or equivalent.

CHM 319L. Advanced Organic Synthesis Laboratory. 1 Hour

Preparation of organic compounds by single and multi-step synthetic sequences. Basic techniques in synthesis including use of organometallics, inert atmosphere, temperature control, extraction, vacuum distillation, column chromatography, recrystallization, and spectroscopic characterization methods. One four-hour laboratory each week. Prerequisite(s): CHM 314, CHM 314L.

CHM 341. Environmental Chemistry. 3 Hours

An introduction to the chemical processes in the environment. Topics include chemical equilibrium in aqueous solution, reaction mechanisms as applied to atmospheric chemistry, and analytical methods commonly applied to environmental samples. Prerequisite(s): CHM 314 or permission of instructor.

CHM 341L. Environmental Chemistry Laboratory. 1 Hour

Laboratory course to accompany CHM 341. Corequisite(s): CHM 341.

CHM 390. Seminar III. 0 Hours

Overview of methods of scientific oral presentation and formal conversation within the molecular sciences professional community.

CHM 404. Special Topics in Physical Chemistry. 3 Hours

Thorough treatment of topics such as electrochemistry, macromolecules, photochemistry, or spectroscopy. May be repeated as topics change. Prerequisite(s): CHM 302 or CHM 303.

CHM 412. Intermediate Organic Chemistry. 3 Hours

Modern theory and practice of organic chemistry. May include structure-reactivity relationships, reaction mechanism, and synthetic topics not normally treated in introductory courses. Prerequisite(s): CHM 302 or equivalent; CHM 313, CHM 314; senior standing.

CHM 415. Analytical Chemistry. 2 Hours

Chemical analysis based on modern instrumentation. Chromatographic, electrochemical, and spectroscopic methods. Prerequisite(s): CHM 201, CHM 201L; (CHM 302 or CHM 304).

CHM 415L. Analytical Chemistry Laboratory. 2 Hours

Course to accompany CHM 415. Two three-hour laboratory sessions each week. Prerequisite(s): CHM 201L; CHM 302 or equivalent.

CHM 417. Inorganic Chemistry. 3 Hours

An advanced course in modern inorganic chemistry. Atomic structure, principles of bonding and structure, acid-base chemistry, periodicity, coordination compounds, nonaqueous solvents, electrochemistry, molecular symmetry, organometallic compounds, and the chemistry of selected representative elements. Prerequisite(s): CHM 314. Corequisite(s): CHM 302 or CHM 304.

CHM 418L. Inorganic Chemistry Laboratory. 1 Hour

Laboratory course dealing with the synthesis and characterization of inorganic and organometallic compounds. Topics include vacuum and inert atmosphere techniques, separation and purification, spectroscopic characterization, X-ray diffraction, magnetic moment, and conductance measurements. Prerequisite(s): CHM 201L, CHM 314L. Corequisite(s): CHM 417.

CHM 420. Biochemistry. 3 Hours

The fundamental aspects of the chemistry and biochemistry of carbohydrates, lipids, proteins, and nucleic acids. Enzymology, protein purification, bioenergetics, metabolism of carbohydrates, lipids, amino acids, nucleotides and nucleic acids, elementary molecular biology, and control processes are described. Acceptable preparation for medical school. Prerequisite(s): CHM 314.

CHM 426. Biosynthetic Organic Chemistry. 3 Hours

Mechanistic fundamentals of the biosynthesis and transformation of organic natural products, with special emphasis on medicinal compounds, toxins, pheromones and other secondary metabolite structures. Prerequisite(s): (CHM 314, CHM 314L) or equivalent.

CHM 427. Medicinal Chemistry. 3 Hours

The chemical mechanisms of action of the major drug classes will be surveyed with particular emphasis on the facets of organic chemistry that control drug-receptor interactions, metabolism and mechanisms of toxicity and resistance. First term. Prerequisite(s): CHM 314; (CHM 420 or CHM 451).

CHM 450. Advanced Organic Synthesis. 3 Hours

Fundamentals of synthesis and transformations of organic compounds, with emphasis on mechanisms; pericyclic reactions; small and medium ring synthesis; chemoselectivity, regioselectivity, stereoselectivity, retrosynthesis, functional group transformations, carbon-carbon bond forming reactions, oxidations, reductions and protecting groups. Prerequisite: (CHM 314, CHM 314L) or equivalent.

CHM 451. General Biochemistry I. 3 Hours

Discussion of the chemistry and biochemistry of carbohydrates, amino acids, proteins, and nucleic acids, including health-science and methodologic aspects. Descriptions of enzymology, protein purification, and carbohydrate metabolism related to such topics as bioenergetics, membranes, and disease processes. Recommended for students desiring entry into graduate and professional schools. Prerequisite(s): CHM 201, CHM 314.

CHM 452. General Biochemistry II. 3 Hours

Discussion of selected topics in bioenergetics, and metabolism of lipids, amino acids, porphyrins, nucleic acids, and proteins. Current aspects of nutrition, biochemical genetics, endocrinology, regulation, and genetic engineering addressed and related to health-science topics as time permits. Suitable preparation for medical school. Prerequisite(s): CHM 451.

CHM 454. Rational Drug Design. 3 Hours

Introduction to drug target selection, lead compound discovery, and application of structure-activity relationships and computational chemistry towards refinement and optimization of lead compounds and their derivatives. Use of molecular graphics software and publicly available macromolecular structure databases will provide the foundation for evaluating macromolecular models of drug targets and allow a hands-on exploration of the structure/function relationships of proteins that have been successful targets of rational drug design. Prerequisite(s): (CHM 420 or CHM 452) or equivalent.

CHM 462L. Biochemistry Laboratory. 1 Hour

Laboratory course to accompany biochemistry lecture courses. Spectrophotometry, pH and dissociation, enzymologic methodology and analytical techniques, chromatographic techniques. Corequisite(s): CHM 420 or CHM 451.

CHM 463L. Bioanalytical Chemistry Laboratory. 1 Hour

Introduction to analytical methods in current use in biochemistry. Course will focus on separations and spectroscopic methods for the analysis of biomolecules. Prerequisite(s): CHM 201, CHM 201L, CHM 302.

CHM 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

CHM 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

CHM 480. Professional Practices Seminar. 1 Hour

Practicum which culminates in the presentation of a technical talk on a topic in chemistry to peers and faculty members. Emphasis on the molecular scale of observation.

CHM 490. Seminar IV. 1 Hour

Presentation of a research topic during the weekly seminar series for the Department of Chemistry. Prerequisite(s): CHM 480.

CHM 495. Introduction to Research Seminar. 0 Hours

Research topics presented by visiting scientists and faculty, and the results of thesis research by senior students. Required of all junior chemistry and biochemistry majors in the B.S. programs. Grading Option two.

CHM 496. Professional Practices Seminar. 0 Hours

After discussions of the chemical literature and information retrieval, resumes, graduate education, and career opportunities, students present technical talks on topics with social, ethical, or historical implications. Required of all chemistry and biochemistry majors, both B.S. and B.A.

CHM 497. Research Seminar. 0 Hours

A series of seminars as described under CHM 495. Required of all senior chemistry and biochemistry majors in the B.S. programs.

CHM 498. Research & Thesis. 3 Hours

All students in the B.S. programs including co-op students are required to enroll for a minimum of three semester hours in a research course (CHM 498). Students may take additional research semester hours (CHM 499) if the work extends for more than two semesters. Successful completion of research courses requires the submission of a typewritten thesis and the presentation of a seminar. With the prior approval of the department chairperson, B.S. co-op students may substitute work experience for research. Prerequisite(s): Permission of department chairperson.

CHM 499. Research & Thesis. 1-3 Hours

All students in the B.S. programs including co-op students are required to enroll for a minimum of three semester hours in a research course (CHM 498). Students may take additional research semester hours (CHM 499) if the work extends for more than two semesters. Successful completion of research courses requires the submission of a typewritten thesis and the presentation of a seminar. With the prior approval of the department chairperson, B.S. co-op students may substitute work experience for research. Prerequisite(s): CHM 498; permission of department chairperson.

Communication

- Bachelor of Arts, Communication (p.)

Concentrations:

- Communication Management
- Communication Studies
- Journalism
- Media Production
- Public Relations
- Theatre

Minors:

- Communication (p. 149)
- Political Journalism (p. 149)

The course requirement for communication majors is 39 semester hours. Teacher licensure through the dual-degree B.A. and B.S.E. program, conducted in conjunction with the Department of Teacher Education in the School of Education and Health Sciences, is an option for communication majors. Consult department chairperson for details.

A minor in communication consists of 15 semester hours. A minor in political journalism is available for political science majors and international studies majors. The political journalism minor consists of 18 semester hours. The department also offers a Bachelor of Arts with a major in theatre. See Theatre (p. 285).

Faculty

Joseph M. Valenzano, III, Chairperson

Professors Emeriti: Anderson, Blatt, Gilvary, Lain, Morlan

Professors: Cusella, Hess, Robinson, Skill, Thompson, Wallace

Associate Professors: Griffin, Han, Hayford, Scantlin, Valenzano, Watters

Assistant Professors: Abitbol, Dunlevy, Painter, Taylor, Vibber

Lecturers: Beran, Combs, Evans, Flynn, Freitag, Kelley, Oh, Secrease, Sweet, Toomb

Media Specialist in Residence: Kennedy

Bachelor of Arts, Communication (CMM) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variab credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variab credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements

CMM 100 Principles of Oral Communication	3
CMM 201 Foundations of Mass Communication	3
CMM 202 Foundations of Communication Theories & Research	3
CMM 351 Public Speaking	3

Select one concentration from:

Communication Management (CMT)

CMM 325 Principles of Communication Management ¹	3
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CMM 322 Interviewing for Communication & Business	3
CMM 412 Research Methods in Communication ²	3
CMM 420 Communication & Conflict Management	3
CMM 425 Professional Seminar in Communication Management in Organizations ³	3
Optional Courses ^{4,5}	12

Communication Studies (CSS)

Select courses from CMM	27
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Must include a capstone and department diversity course.

Course selection requires advisor and department chair approval.

Media Production (RTV)

CMM 343 Writing for Electronic and Digital Media ¹	3
CMM 341 Audio Production	3
or CMM 342 Fundamentals of Video Production	
CMM 417 Introduction to Audience Research ²	3
CMM 441 Media Processes & Effects	3
CMM 397 Communication Practicum	3
& CMM 398 and Communication Practicum	
& CMM 399 and Communication Practicum ³	
Optional Courses ^{4,5}	12

Journalism (JRN)

CMM 330 Media Writing ¹	3
CMM 337 Journalism Ethics and Values	3
CMM 338 Reporting ²	3
CMM 432 Media Law	3
CMM 438 Multi-Media Journalism ³	3
Optional Courses ^{4,5}	12

Public Relations (PUB)

CMM 330 Media Writing ¹	3
CMM 360 Principles of Public Relations	3
CMM 412 Research Methods in Communication ²	3
CMM 460 Advanced Public Relations Writing	3
CMM 461 Public Relations Campaigns ³	3
Optional Courses ^{4,5}	12

Communication - Theatre (CTR)

THR/VAR 250 Creative Arts for Social Justice	3
THR/EGR 308 Engineering for the Performing Arts ²	3
THR 310 Acting for Everyone ²	3
THR 316 Performance Company ⁶	0
THR 425 Theatre Theory & History ¹	3
THR 499 Creating New Works ³	3
Optional Courses ⁴	12

Breadth

ASI 150 Introduction to the University Experience	1
Supporting Area of Study	12
Total Hours to total at least	124

¹ Writing-intensive course.

² Methods course.

- ³ Capstone course.
- ⁴ Any four CMM or CMS courses. THR course by exception and requires approval of department chair.
- ⁵ One course must have diversity as a significant learning outcome as defined by the department. Current courses include CMM 313, CMM 410, CMM 447, CMM 464, CMS 316, CMS 414, CMS 415, and any course offered on the Communication Study Abroad program.
- ⁶ Four semesters of the 0 credit THR 316 are required for CTR concentration majors to build community and provide professional development opportunities.

Minor in Communication (CMM)

Communication

CMM 100	Principles of Oral Communication	3
Select four CMM courses (300/400-level) ¹		12
Total Hours		15

- ¹ In consultation with the chairperson.

Minor in Political Journalism (POJ)

Political Journalism ¹

CMM 201	Foundations of Mass Communication	3
CMM 330	Media Writing	3
Select four courses from:		12
CMM 331	Feature Writing	
CMM 354	Political Campaign Communication	
CMM 355	Rhetoric of Social Movements	
CMM 431	Public Affairs Reporting	
CMM 432	Media Law	
Total Hours		18

- ¹ Available only to international studies majors and political science majors.

First Year

Fall	Hours Spring	Hours
ASI 150	1 CMM 351	3
CMM 100 (CAP Communication)	3 ENG 100 (CAP Humanities Commons)	3
CMM 201	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 MTH (CAP Mathematics)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 Language 141	4
Language 101	4	
	17	16

Second Year

Fall	Hours Spring	Hours
CMM 202	3 CMM Concentration	3
CMM Concentration	3 SSC 200 (CAP social science)	3

ENG 200 (CAP Writing Seminar)	3 INSS (CAP Natural Science w/ lab)	4
INSS (CAP Natural Science w/lab)	4 CAP Faith Traditions	3
Language 201, or contextual course	3 Literature	3
	16	16

Third Year

Fall	Hours Spring	Hours
CMM Concentration	3 CMM Concentration	3
CMM Concentration	3 CMM Concentration	3
CAP Arts / Creative and Performing	3 CAP Advanced Philosophy/ Religious Studies	3
Social Science - intro level	3 CAP Advanced Historical Studies	3
INSS Natural Science	3 Social Science - 300/400 level	3
	15	15

Fourth Year

Fall	Hours Spring	Hours
CMM Concentration	3 CMM Concentration (Satisfies CAP Major Capstone)	3
CMM Concentration	3 CAP Integrative	3
CAP Advanced Philosophy/Religious Studies	3 CAP Inquiry	3
CAP Practical Ethical Action	3 CAP Diversity and Social Justice	3
Social Science - elective	3 General elective	2
	15	14

Total credit hours: 124

Communication/Social Sciences Courses

CMS 316. Intercultural Communication. 3 Hours

Study of interpersonal communication with emphasis on people from different countries and with different cultural backgrounds. Focus on the influence of culture on communication and language, verbal and non-verbal communication similarities and differences from culture to culture, the articulation of strategies for achieving successful intercultural communication, and the providing of solutions for intercultural miscommunication. Prerequisite(s): CMM 100 and Sophomore standing or higher.

CMS 414. Global Communication. 3 Hours

Introduction to the main topics in the field of global communication. Emphasis on comparative mass media and current issues in global communication. Will not satisfy humanities requirement.

CMS 415. Gender and Communication. 3 Hours

Seminar focusing on gender differences in communication, unique aspects to women's communication, and women's rhetoric, and providing solutions to gender and miscommunication. Current theory and research examined. Sophomore standing or higher. Prerequisite(s): CMM 100.

Communication Courses

CMM 100. Principles of Oral Communication. 3 Hours

Introduces the relationship between communication and democratic life in contemporary and historical contexts. This course examines the importance of communication in achieving mutual understanding and provides the opportunity to demonstrate effective and ethical dialogue. Students learn to structure messages that deliver complex information to non-experts, effectively advocate a position, and critique the messages of others.

CMM 113. Interviewing. 1 Hour

Communication processes for information gathering and employment interviewing. Focus is on the development of general competencies in the conduct and organization of interviews, preparation of resumes, evaluation of questions and responses, research, listening, and nonverbal communication.

CMM 201. Foundations of Mass Communication. 3 Hours

Historical development of mass media in America; survey of mass media theories, impact of mass media on people and society, the role and influence of the news media, new technologies, programming, and pressure groups.

CMM 202. Foundations of Communication Theories & Research. 3 Hours

Study of the nature and scope of communication theories and research. Examination of how the communication discipline developed from classical traditions to its modern perspective.

CMM 311. Studies in Oral Performance. 3 Hours

Oral performance of poetry, prose, and drama; combining study of vocal modulations, pitch, inflection, and tone color with intellectual and emotional analysis of selections as a means of making the literature alive and immediately present.

CMM 313. Nonverbal Communication. 3 Hours

A survey of theory and research in nonverbal communication designed to raise students' awareness of their own and others' nonverbal behaviors. Goals include enabling students to use nonverbal behaviors to enhance their communicative abilities, to more accurately interpret the nonverbal behaviors of others, and to successfully adapt to changing cultural and relational communication contexts.

CMM 315. International Mass Media. 3 Hours

Focus on the mass media of a particular foreign country or region of the world. Topics may include media content, use, societal effects and ownership.

CMM 320. Interpersonal Communication. 3 Hours

Study of communication behavior in a variety of dyadic relationships including acquaintance, friendship, work, romantic, and family. Focus on communicative behavior and communicative processes in relationship development including building trust, managing conflict, negotiating power, and listening empathetically.

CMM 321. Small Group Communication. 3 Hours

Examination of theory and research related to communicative processes in small, task-oriented groups. Applications include a focus upon decision-making strategies, leadership, conflict management, and cohesion. Prerequisite(s): CMM 110.

CMM 322. Interviewing for Communication & Business. 3 Hours

Analysis of communication in structured dyadic interaction. Emphasis on the following types of interviews: information-gathering, employment, appraisal, and persuasive. Application through role-playing and feedback systems. Prerequisite(s): CMM 100.

CMM 325. Principles of Communication Management. 3 Hours

Introduction to issues, theory, and research in organizational communication. Topics may include organizational culture, conflict management, small group decision making and collaboration, leadership, diversity, and technology in the modern organization. Prerequisite(s): CMM 100.

CMM 330. Media Writing. 3 Hours

Students develop and practice writing skills for journalism and public relations across media platforms. Course introduces techniques for writing news and information for mass audiences, news principles and values, and skills for gathering information and interviewing. Clarity and accuracy are emphasized.

CMM 331. Feature Writing. 3 Hours

Developing and writing nonfiction stories for newspapers and magazines. Story types include personality profile, color, background, consumer, and commentary. Study and practice in journalistic reporting skills and literary writing techniques. Emphasis on content, organization, style, and accuracy. Strong command of AP style necessary. Prerequisite(s): CMM 330.

CMM 332. Publication Design. 3 Hours

Layout and design of print and electronic publications, including newsletters, brochures, and web-based publications. Instruction in desktop and web publishing software, use of type and illustration, cost appraisal, printing methods.

CMM 333. Free Lance Writing. 3 Hours

Steps of free-lance publication, from market analysis to query letters to writing and rewriting. Mostly nonfiction, magazine markets, some newspaper and nonfiction book markets.

CMM 334. Sportswriting. 3 Hours

In addition to game stories, attention is also paid to writing about personalities, legal issues, and financial issues on the interscholastic, intercollegiate, amateur, and professional levels. Strong writing skills and knowledge of journalistic style expected. Prerequisite(s): CMM 330.

CMM 337. Journalism Ethics and Values. 3 Hours

This course explores ethics and values that guide the practice of journalism. Students will analyze ethical situations and critically evaluate principles and standards. Through discussion, research, and case studies, students will enhance their awareness of ethical issues in journalism and their ability to make ethical choices.

CMM 338. Reporting. 3 Hours

Exploration of issues and institutions of public concern through accurate and ethical beat reporting. Students develop news judgment and research strategies, including accessing public documents and interviewing, and build skills for reporting and editing across media platforms. Prerequisite(s): CMM 330.

CMM 340. Fundamentals of Broadcasting. 3 Hours

Survey of broadcasting, with emphasis on television and radio networks, programming, regulation, audience measurement, audience effects, and technology. Although attention is given both to the origins and future of the field, contemporary broadcasting is emphasized.

CMM 341. Audio Production. 3 Hours

Study of the theories, processes, and technologies of audio production practices that can be applied in radio, television, and multimedia production. Exercises in recording of voice, music, and special effects. Course includes the operation of basic studio and field equipment, including analog and basic digital recording and editing.

CMM 342. Fundamentals of Video Production. 3 Hours

Explores the techniques of studio and remote video production. Includes the technical and creative aspects of planning and script preparation, producing, directing, technical directing, graphics, editing, camera, lighting, and sound for a variety of video programs.

CMM 343. Writing for Electronic and Digital Media. 3 Hours

Study of concrete approaches to and practical applications of professional level writing for video, audio, television, radio, digital and corporate media platforms.

CMM 344. Multimedia Design & Production I. 3 Hours

Introduction to producing in the interactive media of CD-ROM and other digital formats. Reviews basic object linking and embedding in familiar computer programs such as Word, PowerPoint, and Freelance Graphics. Students build skills in multimedia authoring, using all the fundamental tools of graphics, text, audio, and video.

CMM 345. Classic American Film. 3 Hours

Introduction to classic U.S. films through the ages. Revolves around the viewing and analysis of significant Hollywood films. Course varies topically, ranging from a broad overview of classic American films to versions examining a particular film genre to versions exploring a theme through the medium of classic film. May be repeated once as topics change.

CMM 350. Propaganda Analysis. 3 Hours

Examination of major propaganda campaigns in history beginning with Greek democracy. Emphasis on twentieth century propaganda as psychological warfare. Principles of Aristotelean rhetorical theory applied to propaganda analysis.

CMM 351. Public Speaking. 3 Hours

Oral communication in professional situations. Adaptation of principles of ethical and effective speaking to specific audiences and occasions. Delivery of informative and persuasive speeches. Prerequisite(s): CMM 100.

CMM 352. Persuasion. 3 Hours

An in depth examination of the attitude - behavior relationship and a detailed overview of persuasion theory. Students will create and test the effectiveness of theoretically derived messages in a service learning project and study the role communication plays this process. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 354. Political Campaign Communication. 3 Hours

Examination of theory and research on the role, processes and effects of communication in political campaigns with emphasis on mass media, public speaking, debates, advertising, and interpersonal communications. Prerequisite(s): CMM 100 and Sophomore standing.

CMM 355. Rhetoric of Social Movements. 3 Hours

Study of rhetorical communication in American social movements through examination of the strategies, themes and tactics used by agitators and the institutional responses to discourse aimed at social change. Prerequisite(s): CMM 100 and Sophomore standing or higher.

CMM 356. Argumentation and Advocacy. 3 Hours

Study of theory and practice in persuasive argument. Explores the nature of argument, advocacy, debate, persuasion, and dialogue. Students will learn how to articulate a persuasive case and critique the arguments of others. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 357. Religious Rhetoric in American Culture. 3 Hours

Exploration of the theoretical and practical intersections of faith and communication. Addresses how faith is articulated and represented through the use of language, symbols and media. The course explores the relationship of language and religion, the practice of preaching, how religion is depicted in popular culture and through media, and the relationship between faith and politics in contemporary America. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 359. The Road to Hell: The Apocalypse in Classical and Contemporary Forms. 3 Hours

Study of depictions of the apocalypse in classical and contemporary literature, film and speech with special attention to the rhetorical dimensions of those messages.

CMM 360. Principles of Public Relations. 3 Hours

Survey of the field of public relations emphasizing writing and public relations, theoretical implications of the field, the practitioner's role in organization and the community.

CMM 372. Communication for Health Professionals. 3 Hours

Analysis of communication skills that are particularly relevant in the health care setting. The course addresses ways of improving communication between providers and patients through the use of interactions with simulated patients. Primarily serves health science or communication/social science students. Prerequisite(s): CMM 100 and Sophomore standing or higher.

CMM 381. Faith and Free Expression. 3 Hours

Exploration of issues related to religious expression and the First Amendment. Examination of the impact of the First Amendment on American society through study of its historical, political, social, and religious meaning and influence. Topics may include obscenity laws, prayer in school, and other matters of faith and free speech. Prerequisite(s): CMM 100 and Sophomore standing or higher.

CMM 385. Dialogue, Power, and Diversity. 3 Hours

Exploration of how diversity and power intersect and how dialogic communication may facilitate interaction about and is affected by diversity and power. Prerequisite(s): CMM 100 and Sophomore standing or higher.

CMM 390. Independent Study. 1-3 Hours

Supervised study involving directed readings, individual research (library, field, or experimental), or projects in the specialized areas of communication. May be repeated for up to six semester hours. Prerequisite(s): Permission of department chairperson.

CMM 397. Communication Practicum. 1 Hour

Offers students an opportunity to participate in the operation of Flyer TV, Flyer Radio, or Flyer News (the University of Dayton's student-run media platforms.) One semester hour per term.

CMM 398. Communication Practicum. 1 Hour

Offers students an opportunity to participate in the operation of Flyer TV or Flyer Radio. One semester hour per term.

CMM 399. Communication Practicum. 1 Hour

Offers students an opportunity to participate in the operation of Flyer TV or Flyer Radio. One semester hour. This final practicum constitutes the Media Studies capstone experience. Prerequisite(s): CMM 397, CMM 398.

CMM 410. Family Communication. 3 Hours

Study of the family from a communication perspective, considering the communication processes within the family and the extent to which communication affects and is affected by the family. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 411. Health Communication. 3 Hours

Examination of communication theory and research as they relate to health care. Issues include provider-patient interaction, the role of the patient, health organizations, the media and health, end-of-life concerns, and health campaigns. Prerequisite(s): CMM 100 and Sophomore standing or higher.

CMM 412. Research Methods in Communication. 3 Hours

Study of data gathering and analysis in communication research. Specific attention to survey design and analysis, and focus group implementation and analysis.

CMM 413. Communication in the Information Age. 3 Hours

Examination of issues related to development, economics, programming, and the future of new mass communication technologies. Prerequisite(s): CMM 201 or permission of instructor.

CMM 416. Development of Mass Media. 3 Hours

History and analysis of the development and interdependence of mass media, print and electronic. Emphasis on its role in political and economic progress of U.S. and attendant responsibility.

CMM 417. Introduction to Audience Research. 3 Hours

Overview of how media organizations describe and analyze audiences, the statistical and methodological techniques they use, and how those same methods are used to study the impact of media portrayals. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 420. Communication & Conflict Management. 3 Hours

Examination of the functions of communication in interpersonal conflict such as marital conflict, role conflict, and organizational conflict. Communicative strategies and tactics for managing conflict.

CMM 421. Communication in Organizations. 3 Hours

Analysis of message initiation, diffusion, and reception in organizations; analysis of the role of communication in developing productive work relationships, management practices, and organizational cultures.

CMM 425. Professional Seminar in Communication Management in Organizations. 3 Hours

Capstone experience for Communication Management. Examines a focused topic in organizational communication allowing students the opportunity to diagnose and provide solutions through the integration and application of communication principles and best practices. Prerequisite(s): CMM 325; Senior standing.

CMM 430. Copyediting. 3 Hours

Editing, particularly news copy editing and headline writing. Emphasis on clear and concise wording; proper spelling, grammar, and punctuation; and accuracy. Strong command of AP style necessary. Prerequisite(s): CMM 330.

CMM 431. Public Affairs Reporting. 3 Hours

Investigative and specialized reporting on matters of public concern. Practice in gathering information from primary and secondary sources, and writing about complex subjects for mass audiences. Prerequisite(s): CMM 330.

CMM 432. Media Law. 3 Hours

Media Law explores the press, expression and mass media within the context of the U.S. Constitution, state and federal legislation, and court rulings. This course introduces students to core values of the First Amendment, and such topics as government regulation, censorship, copyright protection, libel, and privacy.

CMM 438. Multi-Media Journalism. 3 Hours

Capstone course in the journalism concentration. Applies knowledge and skills from previous classes to develop in-depth stories across media platforms. Prerequisite(s): CMM 330, CMM 337, CMM 338, CMM 432.

CMM 439. Special Topics in Journalism. 3-6 Hours

Concentrated study in special areas of journalism. May be repeated with change of topic.

CMM 440. Broadcast News. 3 Hours

Study of the process and practice of news gathering and writing for radio and television. Course includes research, analysis, writing and editing news and features, as well as legal and ethical concerns of broadcast news. Prerequisite(s): CMM 330, CMM 342.

CMM 441. Media Processes & Effects. 3 Hours

Interdisciplinary study of how traditional mass media (TV, radio, newspapers, magazines, films) content influence individuals and impact society and how these technologies differ from new media/social media. Emphasis on the current state of knowledge about the effects of violence, stereotyping, and health messages as well as what is known about the effects of computer games and using the internet. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 442. Advanced Television Production. 3 Hours

Advanced techniques of both studio and electronic field production and post-production editing for television. Prerequisite(s): CMM 342.

CMM 444. Multimedia Design & Production II. 3 Hours

Advanced level multimedia production emphasizing client-based project generation through a design/production team approach. Focus is on interface design; project planning, script writing, story boarding; digital image, sound and video editing; and the use of authoring software. Prerequisite(s): CMM 344.

CMM 445. Media Performance. 3 Hours

Course focuses on learning and practicing the fundamentals of on-camera and on-air broadcast and digital delivery performance. Students will also practice critical analysis of broadcast performance.

CMM 446. Electronic Media Management. 3 Hours

Survey of the leadership/management roles and responsibilities of broadcasting, cable television and corporate media enterprises. Prerequisite(s): CMM 340.

CMM 447. Children and Mass Media. 3 Hours

Introduction to and understanding of how children and adolescents use media in their daily lives. Also examines how that use influences their cognitive, emotional, social, and physical development.

CMM 449. Topics in Electronic Media. 3 Hours

Concentrated study in special areas of electronic media production, criticism, and management. May be repeated once with change of topic. Depending on topic, prerequisites may be imposed.

CMM 452. Public Discourse & Criticism. 3 Hours

Examination of the foundations of the field of communication. Major focus on the development of rhetorical theory with attention to rhetorical analysis and criticism.

CMM 453. Communication, Cybersecurity, and Social Engineering. 3 Hours

Study of the role persuasion plays in computer hacking and what individuals and organizations can do to defend against social engineering exploits. Prerequisite(s): CMM 100 and (ENG 100 or 100B or 200H or ASI 110) and ((HST 103, PHL 103, REL 103) or ASI 120).

CMM 460. Advanced Public Relations Writing. 3 Hours

Study, development and application of public relations strategies and tactics. Emphasis on strategically effective, factually accurate and grammatically sound written communications for organizational and mass audiences. Prerequisite(s): CMM 330, CMM 360, junior or senior standing.

CMM 461. Public Relations Campaigns. 3 Hours

Capstone course in the PR concentration that focuses on planning and implementing a public relations campaign for an established professional organization. Students work out solutions to communication and public relations problems, and prepare written campaign materials. Prerequisite(s): CMM 330, CMM 360, CMM 460; senior standing.

CMM 463. Digital Public Relations. 3 Hours

Exploration of Internet's impact on public relations, especially on relationships among public relations practitioners, journalists, and the public. The perceived credibility and trust issues of the Internet; new trends the digital and social media is bringing to PR; and how to inform, persuade, and build relationships with organizations and their public via digital communication are covered. Prerequisite(s): CMM 360.

CMM 464. International Public Relations. 3 Hours

Examination of effective PR practices beyond the United States. Analysis and evaluation of real cases to investigate effective PR strategies for different countries or organizational settings. Prerequisite(s): CMM 360.

CMM 468. Case Studies in PR. 3 Hours

Examination of PR cases that illustrate models and theories, and teach key PR principles. Allows students to critically analyze, judge, and evaluate situations by applying PR principles and theories. Prerequisite(s): CMM 360.

CMM 469. Special Topics in Public Relations. 3 Hours

A concentrated study in specific areas of public relations. Development of specialized projects. May be repeated once with change of topics. Prerequisite(s): CMM 360 or permission of instructor.

CMM 471. Communication and Digital Literacy. 3 Hours

Exploration of questions surrounding the development of media literacy skills from childhood through adulthood, creation of media literacy materials applicable to diverse audiences, and evaluation of implications of participatory culture.

CMM 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

CMM 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

CMM 498. Communication Internship. 1-6 Hours

Communication work experience in an approved organization. Student must be in good academic standing. Students are normally limited to a maximum of three semester hours. Under exceptional circumstances, students may petition the department chair for an additional three semester hours if the second internship is at a different organization and the student can demonstrate that the position offers a unique and significant educational opportunity not available through the first internship. Grading Option Two only. Prerequisite(s): CMM 110, (CMM 111 or CMM 112), CMM 113, CMM 201, CMM 202, CMM 330; permission of department chairperson.

CMM 499. Special Topics in Communication. 3-6 Hours

Concentrated study in specific areas of speech communication. May be repeated once with change of topic.

Computer Science

Majors:

- Bachelor of Science, Computer Information Systems (p. 154)
- Bachelor of Science, Computer Science (p. 155)

Minors:

- Computer Information Systems (p. 155)
- Computer Science (p. 156)

The Department of Computer Science offers two programs leading to a Bachelor of Science degree in either computer science or computer information systems. Both programs require similar introductory core sequence of courses in computer science. The main differences between the two programs are in the mathematics and science requirements and in the application emphases.

Computer Science

Computer science is the study of algorithms and their implementation as applications (apps). This includes the study of data structures, software design, programming languages, operating systems, and computer architecture. Each student must take appropriate upper-level electives from any concentration areas of ambient intelligence, 3-D modeling, and game development; cyber security and computer networks; theory of computation; software engineering and project management; and big data and cloud computing.

Computer Information Systems

This program emphasizes computer science concepts with particular attention to systems analysis and design, and includes a concentration area or minor chosen by the student in consultation with the student's advisor.

Both of these B.S. programs provide a foundation for students to embark on successful careers in a variety of computing disciplines, including software engineering, system design, database management, big data,

ambient intelligence, gaming, cyber security, computer networking, systems programming, and systems administration. In addition, graduates will be prepared to pursue graduate study in computer science and related disciplines.

Computer Science and Computer Information Systems majors are required to attain grades of C- or better in the following courses: CPS 150, CPS 151, and CPS 350.

A minor in computer science consists of 20 semester hours. A minor in computer information systems consists of 23 semester hours.

Faculty

Mehdi Zargham, Chairperson

Professors Emeriti: Kester, Lang, Smith, Winslow

Professors: Sritharan, Zargham

Associate Professors: Buckley, Courte, Gowda, Perugini, Yao

Assistant Professors: Nguyen, Phung, Shen

Lecturers: Bashias, Sanyal

Bachelor of Science, Computer Information Systems (CIS) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

Mathematics ¹	9
MTH 148 Introductory Calculus I (Satisfies CAP Mathematics)	
MTH 149 Introductory Calculus II	
MTH 367 Statistical Methods I	
Natural Sciences (Applies to CAP Natural Science) ¹	8

Select two sequences from:

BIO 151 & 151L Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	
BIO 152 & 152L Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	
CHM 123 & 123L General Chemistry and General Chemistry Laboratory	
CHM 124 & 124L General Chemistry and General Chemistry Laboratory	
GEO 115 & 115L Physical Geology and Physical Geology Laboratory	
GEO 116 & 116L Geological History of the Earth and Geological History of the Earth Laboratory	
PHY 201 & 201L College Physics I and College Physics Laboratory I	
PHY 202 & 202L General Physics and General Physics Laboratory	
PHY 206 & PHY 210L General Physics I - Mechanics and General Physics Laboratory I	
PHY 207 & PHY 211L General Physics II - Electricity & Magnetism and General Physics Laboratory II	

Major Requirements

CPS 149 Creative Media Applications	3
CPS 150 Algorithms & Programming I	4
CPS 151 Algorithms & Programming II	4
CPS 242 Web Application Development	3
CPS 250 Computer Organization and Architecture	3
CPS 310 Systems Analysis	3
CPS 312 Systems Design	3
CPS 341 Discrete Structures	3
CPS 350 Data Structures & Algorithms	3
CPS 356 Operating Systems	3
CPS 490 Capstone I (Satisfies CAP Major Capstone)	3
Select four CPS courses (310 level or above)	12

Concentration: courses below or an approved minor 15-27

ACC 207 Introduction to Financial Accounting	
ACC 208 Introduction to Managerial Accounting	
ECO 203 Principles of Microeconomics	
ECO 204 Principles of Macroeconomics	
MGT 301 Organizational Behavior	
MKT 300 Survey of Marketing	

Breadth

ASI 150	Introduction to the University Experience	1
PHL 319	Information Ethics (Satisfies CAP Practical Ethical Action and Adv Studies in PHL)	3
Social and Behavioral Sciences (includes CAP Social Science) ¹		6
Total Hours to total at least		120

¹ This requirement, and CAP components, will be satisfied in some cases by the minor that is chosen.

Bachelor of Science, Computer Science (CPS) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 310	Linear Algebra & Matrices ¹	3
or CPS 353	Numerical Methods I	
MTH 367	Statistical Methods I	3

Select one natural sciences group from (Applies to CAP Natural Sciences): 8

BIO 151 & 151L & BIO 152 & BIO 152L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology and Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	
CHM 123 & 123L & CHM 124 & CHM 124L	General Chemistry and General Chemistry Laboratory and General Chemistry and General Chemistry Laboratory	
GEO 115 & 115L & GEO 116 & GEO 116L	Physical Geology and Physical Geology Laboratory and Geological History of the Earth and Geological History of the Earth Laboratory	
PHY 206 & PHY 207 & PHY 210L & PHY 211L	General Physics I - Mechanics and General Physics II - Electricity & Magnetism and General Physics Laboratory I and General Physics Laboratory II	
Natural Sciences ²		6

Major Requirements

Major Requirements		50
CPS 149	Creative Media Applications	3
CPS 150	Algorithms & Programming I	4
CPS 151	Algorithms & Programming II	4
CPS 250	Computer Organization and Architecture	3
CPS 341	Discrete Structures	3
CPS 350	Data Structures & Algorithms	3
CPS 352	Concepts and Implementation of Programming Languages	3
CPS 356	Operating Systems	3
CPS 450	Design and Analysis of Algorithms (Satisfies CAP Integrative)	3
CPS 490	Capstone I (Satisfies CAP Major Capstone)	3
CPS 491	Capstone II	3
Select five CPS courses (300/400 level) ³		15

Breadth

ASI 150	Introduction to the University Experience	1
PHL 319	Information Ethics (Satisfies CAP Practical Ethical Action and Adv Studies in PHL)	3
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

¹ CPS 353 will not count towards major requirement.

² Select two acceptable courses for Science or Engineering majors.

³ These courses may be taken from any area as defined by the department. At least three courses in an area are required for obtaining a concentration.

Minor in Computer Information Systems (CIS)

Computer Information Systems

CPS 150	Algorithms & Programming I	4
CPS 151	Algorithms & Programming II	4

CPS 242	Web Application Development	3
CPS 310	Systems Analysis	3
CPS 312	Systems Design	3
Select two CPS courses (320 level or above)		6
Total Hours		23

Minor in Computer Science (CPS)

Computer Science

CPS 150	Algorithms & Programming I	4
CPS 151	Algorithms & Programming II	4
CPS 350	Data Structures & Algorithms	3
Select three CPS courses (320 level or above, excluding CPS 437)		9
Total Hours		20

- Bachelor of Science, Computer Information Systems (p. 154)
- Bachelor of Science, Computer Science (p. 156)

Computer Information Systems

First Year

Fall	Hours Spring	Hours
ASI 150	1 CPS 150	4
CPS 149 (CAP Natural Science)	3 MTH 149	3
MTH 148 (Satisfies CAP Mathematics)	3 CAP Natural Science w/ lab	4
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
		17

Second Year

Fall	Hours Spring	Hours
CPS 151	4 CPS 250	3
CPS 341	3 CPS 350	3
MTH 367	3 Science w/ lab	4
ACC 207	3 ACC 208	3
ENG 200 (CAP Writing Seminar)	3 SSC 200 (CAP Social Science)	3
		16

Third Year

Fall	Hours Spring	Hours
CPS 242	3 CPS 312	3
CPS 310	3 CPS elective	3
ECO 203	3 ECO 204	3
MGT 301	3 MKT 300	3
CAP Arts	3 PHL 319 (Satisfies CAP Adv. Philosophy, Practical Ethical Action)	3
		16

CAP Adv. Philosophy/Religious Studies (Faith Traditions)	3
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	15

Fourth Year

Fall	Hours Spring	Hours
CPS 356	3 CPS 490 (Satisfies CAP Major Capstone)	3
CPS elective	3 CPS elective	3
Social Science - elective	3 CPS elective	3
CAP Inquiry	3 CAP Integrative	3
CAP Advanced Historical Studies	3 CAP Diversity and Social Justice	3
		15

Total credit hours: 128

Computer Science

First Year

Fall	Hours Spring	Hours
ASI 150	1 CPS 150	4
CPS 149 (CAP Natural Science)	3 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)	4 CAP Natural Science w/ lab	4
Science w/lab	4 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
		18

Second Year

Fall	Hours Spring	Hours
CPS 151	4 CPS 250	3
CPS 341	3 CPS 350	3
MTH 218	4 MTH 310 or CPS 353	3
ENG 200 (CAP Writing Seminar)	3 CMM 100 (CAP Communication)	3
SSC 200 (CAP Social Science)	3 CAP Arts	3
		17

Third Year

Fall	Hours Spring	Hours
CPS 352	3 CPS 356	3
MTH 367	3 CPS elective	3
CPS 450 (Satisfies CAP Integrative)	3 Science elective	3
Science elective	3 Social Science - elective	3

CAP Faith Traditions	3 PHL 319 (Satisfies CAP Adv. Philosophy, Practical Ethical Action)	3
15		15
Fourth Year		
Fall	Hours Spring	Hours
CPS 490	3 CPS 491 (Satisfies CAP Major Capstone)	3
CPS elective	3 CPS elective	3
CPS elective	3 CPS elective	3
CAP Inquiry	3 CAP Advanced Historical Studies	3
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
15		15

Total credit hours: 128

Courses

CPS 107. Introduction to Computer Science. 3 Hours

An introduction to the field of Computer Science, covering computers and society, the internals and externals of computer hardware and software, as well as some exposure to advanced topics of artificial intelligence, computer forensics, and databases. Intended for science and engineering students.

CPS 111. Introduction to Personal Computers. 3 Hours

Emphasis on use of operating system, particularly file organization, and applications: word processor, spreadsheet, database and presentation software.

CPS 132. Computer Programming for Engineering & Science. 3 Hours

Fundamentals of computer programming including algorithms, program structure, library routines, debugging, and program verification. Calculus-based computer solutions of problems from science and engineering using C++. Corequisite(s): MTH 168.

CPS 144. Introduction to Computer Programming. 3 Hours

Fundamentals of computer programming including algorithms, program structure, library routines, debugging, and program verification. Computer solutions of problems from social sciences using a suitable compiler language such as Visual Basic.

CPS 149. Creative Media Applications. 3 Hours

Multidisciplinary, project-driven learning process courses that encourages students to develop problem solving and teamwork skills while fostering creativity and logic. The goal is not only to provide students with some "programming maturity," but to also engage them through working in small teams on existing projects related to their discipline and interest. Projects may include creative animations and games, mobile app developments, or avatars.

CPS 150. Algorithms & Programming I. 4 Hours

Introduction to computers and programming using a high-level, structured language. Topics include problem solving, algorithms, programming constructs, data representation, stepwise refinement, and debugging.

CPS 151. Algorithms & Programming II. 4 Hours

Algorithms and Programming II covers object-oriented design and development, data abstraction, exception handling, linked lists, stacks, queues, binary trees, and recursion using a high level, structured language. Prerequisite(s): CPS 150.

CPS 242. Web Application Development. 3 Hours

Web application development using the state-of-the-art environments such as markup languages, scripting languages, dynamic web pages, server side technologies, and database access. Prerequisite(s): CPS 151.

CPS 250. Computer Organization and Architecture. 3 Hours

Machine and assembly language instructions, and writing assembly programs. Design of basic logic circuits needed in constructing a computer. Design of circuits for information encoding, arithmetic units, and transferring and storing information. Data path and control unit for a simple processor. Multiprocessing and alternative parallel systems. Prerequisite(s): CPS 151.

CPS 309. Topics in Computer Science. 1-4 Hours

Lectures or laboratory work in areas of current interest. May be taken more than once. Does not count as upper level credit for majors/minors.

CPS 310. Systems Analysis. 3 Hours

Methodologies for developing software, software development life cycles, data flow approach for system development, data dictionary, process specification, input/output design, E-R diagrams, normalization, and introduction to object-oriented analysis. Prerequisite(s): CPS 151.

CPS 312. Systems Design. 3 Hours

Software design process; developing structured design (e.g., structure charts) from data flow approach using coupling, cohesion, and other design guidelines; fine-tuning object-oriented analysis model to design using design patterns, and implementation. Prerequisite(s): CPS 310.

CPS 341. Discrete Structures. 3 Hours

Propositional logic, Boolean algebra, predicate logic, logical deductions, proof techniques, sets, combinatorics, recurrences, functions, relations, discrete structures such as graphs, digraphs, and associated algorithms. Prerequisite(s): CPS 150.

CPS 343. Comparative Languages. 3 Hours

Language design issues, formal syntax specification, data types and storage methods, activation records and procedural object oriented, functional, and logic programming paradigms. Prerequisite(s): CPS 350.

CPS 346. Operating Systems I. 3 Hours

Semaphores, conditions, monitors, and kernels. Concurrent programming, interrupts, memory, and process management. Design and implementation of multithreaded and distributed system components using concurrent languages. Prerequisite(s): CPS 250, CPS 350.

CPS 350. Data Structures & Algorithms. 3 Hours

Dynamic nonlinear data structures including trees, binary trees, search trees, balanced search trees, priority queues, and graphs, with an emphasis on their implementation, uses, and associated algorithms. Analysis of the computational complexity of algorithms related to these structures. Prerequisite(s): CPS 151.

CPS 352. Concepts and Implementation of Programming Languages. 3 Hours

Study of programming language concepts through the implementation of interpreters and assessment of the conceptual differences in the resulting languages. Concepts covered include syntax and semantics, regular and context-free grammars, parsing, binding, scope, parameter passing, lazy evaluation, types, currying, and continuations. A comparative survey of the imperative, functional, logical, and object-oriented paradigms of programming is presented. Prerequisite(s): CPS 350.

CPS 353. Numerical Methods I. 3 Hours

Study of the algorithms of numerical mathematics with emphasis on interpolation, the solution of nonlinear equations, and linear systems of equations including matrix methods; analysis of errors associated with the algorithms. Prerequisite(s): (CPS 132 or CPS 150); MTH 169.

CPS 356. Operating Systems. 3 Hours

Introduces the theoretical and practical concepts underlying an operating system's structure and operation. Topics include process and thread creation and management, scheduling, concurrent, multi-threaded programming and synchronization, deadlock, memory management, virtual memory, and computer security. Prerequisite(s): (CPS 250 or ECE 314) and CPS 350.

CPS 387. Computer System Design I. 3 Hours

Study of the elements of computer design. Design of combinatorial and sequential logic circuits using current integrated circuit devices. Discussion of encoders, decoders, registers, counters, etc. as applied to design and use of control, arithmetic, logic, and storage units. Instruction set, addressing modes and CPU design. Laboratory experiments with these devices. Prerequisite(s): CPS 250, CPS 341.

CPS 410. User Interface Design and Development. 3 Hours

Addresses the practical problems of designing interfaces for modern software as well as other interactive media. Topics include interaction framework and styles, design principles, design models, new interactive technologies, usability testing and facets of interaction. Group activities and project work is an integral part of this course. Prerequisite(s): CPS 350.

CPS 415. Software Testing and Security Analysis. 3 Hours

Detailed examination of the software testing and security analysis process. Topics include testing methodologies, code analysis techniques, and secure programming principles and practices. Prerequisite(s): CPS 350.

CPS 420. Software Engineering. 3 Hours

Provides an overview of the software engineering discipline. Topics include software processes, requirements engineering, system modeling, architectural design, software testing, dependability and security, software reuse, distributed software engineering, project planning, quality management, configuration management, and process improvement. Prerequisite(s): CPS 350.

CPS 422. Software Project Management. 3 Hours

Introduction to software project management. Topics include process models for software development, project planning techniques, estimation techniques, measuring and controlling work products and processes, managing project risk, teams and communication, and organizational issues. Prerequisite(s): CPS 310.

CPS 424. Discrete Event Simulation Techniques. 3 Hours

Design and use of simulation models; study and use of special-purpose simulation languages such as GPSS and GASP IV, SIMSCRIPT II.5. Applications. Prerequisite(s): CPS 151.

CPS 430. Database Management Systems. 3 Hours

Physical and logical organization of databases: the entity-relationship model; relational database model; the data definition and data manipulation language of a commercial database management system; integrity constraints; conceptual database design. Prerequisite(s): CPS 350.

CPS 432. Database Management Systems II. 3 Hours

Study of query execution and optimization, transaction management, concurrency control, recovery and security techniques. Advanced data models and emerging trends in database systems, like object oriented database systems, distributed database systems, the client-server architecture, multidatabase and heterogeneous systems. Other current database topics and emerging technologies will be discussed. Prerequisite(s): CPS 430.

CPS 433. Cyber Forensics. 3 Hours

Preserving, recovering, and analyzing digital evidence found in physical and virtual worlds. Topics include data and information retrieval; computer/media forensic analysis, techniques, and tools; and basic criminal law concepts. Prerequisite(s): CPS 356.

CPS 434. Big Data and Cloud Computing. 3 Hours

Focuses on technologies to make intelligent decisions for scientific and business applications. Topics include semantic web, knowledge representation languages for expressing metadata, machine learning, data visualization, data integration, and predictive models. Prerequisite(s): CPS 350.

CPS 437. System Architectures & Networking. 3 Hours

Issues and techniques used in the physical design of computer-based information systems. Basic operating systems, hardware architecture and networking principles. Intended for students majoring in MIS; not open to students majoring in CPS, CIS, or PCS. Prerequisite(s): MIS 380, MIS 385.

CPS 444. UNIX/Linux Programming. 3 Hours

Prepares students for developing software in the UNIX/Linux environment using the C programming language. Topics include system libraries and system calls, shells, system structures and internals, interprocess communication (pipes and signals), network programming (client-server model and sockets), pattern matching and filters, shell programming, automatic program generation, and GUI programming. Prerequisite(s): CPS 356.

CPS 450. Design and Analysis of Algorithms. 3 Hours

Introduction to order notation and algorithm analysis. Emphasis will be on learning algorithm design techniques such as divide and conquer, greedy approach, and dynamic programming through exposition of classical algorithms from domains such as sorting, string matching, and graph algorithms. Hardness of problems and introduction to the complexity classes P, NP, and NP-complete. Topics also include impact of computing techniques to the improvement or welfare of society as a whole. Prerequisite(s): CPS 341, CPS 350.

CPS 455. Computer Architecture and Design. 3 Hours

Provides a foundation for understanding and evaluating the design principles incorporated in modern computers. Topics include history and classification of computers, instruction-level, data-level, and thread-level parallelism. Prerequisite(s): CPS 250, CPS 350.

CPS 460. Computer Graphics. 3 Hours

Introduction to primitives and interactive graphics software development. Topics include transforms, clipping, modeling, rendering, texture, animation, and ray tracing. Prerequisite(s): CPS 350.

CPS 465. Interactive Media. 3 Hours

Provides an exposure to the capabilities of new digital tools to create new experiences. Topics include tools/techniques for collecting, analyzing, and visualizing 3D data; interactive audio/video using motion/light detectors; mobile interfaces; animation; smart rooms; and social networks. Prerequisite(s): CPS 350.

CPS 470. Computer Networks. 3 Hours

Computer Networks focus on Internet protocols. Topics include packet-switch and multi-access networks, routing, flow control, congestion control, quality of service, Internet protocols, wireless networks, security, and the design of network services. Prerequisite(s): CPS 350.

CPS 472. Computer and Network Security. 3 Hours

Computer and Network Security covers information protection. Topics includes techniques for security in multi-user and distributed systems, principles of secure design, cryptography, authentication, access-control, intrusion detection and viruses, firewalls, wireless security, cracking WEP keys, and VPN security. Prerequisite(s): CPS 356.

CPS 473. Reverse Code Engineering. 3 Hours

Study theories on the application of cyber power to achieve certain objectives. Topics includes cyber policy, tracing strategy, targeting, cyber intelligence, measuring effects, and legal and ethical issues. Prerequisite(s): CPS 350.

CPS 477. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

CPS 478. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

CPS 480. Artificial Intelligence. 3 Hours

Fundamentals concepts and techniques of intelligent systems. Topics includes knowledge representation, search strategies, predicate logic, and expert systems. Prerequisite(s): CPS 350.

CPS 481. Intelligent Systems and Machine Learning. 3 Hours

State-of-art techniques in building intelligent systems. Topics include soft computing, agents and multiagent systems, and machine learning. Prerequisite(s): CPS 350.

CPS 482. Automata Theory. 3 Hours

Formal languages (regular, context-free, recursive, and recursively enumerable), machine models (deterministic and non-deterministic finite automata, push down automata, Turing machines), grammars (regular, context-free, and unrestricted), interplay among these concepts, Church-Turing thesis, and undecidability. Prerequisite(s): CPS 341.

CPS 482H. Automata Theory. 3 Hours

Formal languages (regular, context-free, recursive, and recursively enumerable), machine models (deterministic and non-deterministic finite automata, push down automata, Turing machines), grammars (regular, context-free, and unrestricted), interplay among these concepts, Church-Turing thesis, and undecidability. Prerequisite(s): CPS 341.

CPS 483. Graph Algorithms. 3 Hours

Design and analysis of algorithms for problems based on graphs. Classical algorithms and efficient algorithms for restricted domains of graphs will be covered. Analysis of algorithms, complexity classes P, NP, and NP-complete, traversals, bi-connectedness, strongly-connectedness, 2-SAT, planarity testing, and algorithms for restricted classes of graphs. Prerequisite(s): CPS 341, CPS 350.

CPS 485. Evolutionary Computation. 3 Hours

The history and use of Evolutionary Computation (EC) are explored. Popular approaches to EC (genetic algorithms, genetic programming, evolution strategies, evolutionary programming) are defined and discussed. Coursework includes implementation of evolutionary techniques and review and analysis of literature in the field. Prerequisite(s): CPS 350.

CPS 490. Capstone I. 3 Hours

Examination of principles, practices, and methodology for development of large software systems using data flow and object-oriented methodologies. User interface design, software testing, and software project management. Selecting and planning a team project; this involves team formation, project selection, project planning, and proposal writing and presentation. Prerequisite(s): CPS 350.

CPS 491. Capstone II. 3 Hours

An exercise in the design, implementation, documentation, and deployment of a group project culminating in a presentation to the computer science faculty and industry representatives. Prerequisite(s): CPS 490.

CPS 496. Cooperative Education. 1-3 Hours

Computer science cooperative education work experience in an approved organization. Not open to students with credit in CPS 497. Credit does not apply to major requirements. Repeat to a maximum of three semester hours. Prerequisite(s): Twelve hours of upper-level CPS courses with a GPA of 3.0; total ninety semester hours with a GPA of 2.75; permission of the department in advance of the work.

CPS 497. Internship. 1-3 Hours

Computer science work experience in an approved organization. Not open to students with CPS 496 credit. Credit does not apply to major requirements. Repeat to a maximum of three semester hours. Prerequisite(s): Twelve semester hours of upper-level CPS courses with GPA of 3.0; total ninety semester hours and 2.75 GPA; permission of department in advance of the work.

CPS 498. Problems in Computer Science. 1-4 Hours

Individual readings and research in a specialized area. (See CPS 499.) By arrangement. May be taken more than once for additional credit. Prerequisite(s): Permission of department chairperson.

CPS 499. Special Topics in Computer Science. 1-4 Hours

Lectures or laboratory work in advanced topics from the various areas of computer science. By arrangement. May be taken more than once. Prerequisite(s): Permission of department chairperson.

Criminal Justice Studies

Major:

- Bachelor of Arts, Criminal Justice Studies (p. 160)

Minor:

- Criminal Justice (p. 162)

Criminal Justice is the scientific study of crime, deviance, and the agencies of the criminal justice system. The Bachelor of Arts with a major in Criminal Justice Studies, is a broadly structured interdisciplinary and criminological curriculum designed to introduce students to:

1. A practical and critical understanding of criminal justice, justice studies and criminology.
2. Necessary knowledge for public service, e.g., law enforcement and/or investigative services at the local, state, and national levels; careers in the correctional field, community programs, and other rehabilitative services, as well as staff positions in the judiciary system.
3. Preparation for pursuing advanced study in a criminal justice or criminological graduate program or in law school.

In addition to courses in criminal justice studies, students may take courses in political science, psychology, social work, and sociology.

Those who enter the University of Dayton as first-year students, or as transfers without associate degrees, will be classified under Option A, a total program sequence. Students who transfer to the University of Dayton with acceptable associate degrees in specific fields similar or closely related to criminal justice will be classified under Option B, a transfer program sequence. All students transferring into the curriculum must be in good academic standing and meet entry requirements.

A minor in Criminal Justice Studies consists of 18 semester hours.

Students intending to major or minor in Criminal Justice Studies should consult with the program director to begin planning their program. It is the sole responsibility of students to inform themselves of whatever changes occur in the curriculum and to observe all the regulations, procedures, and requirements of the University and the Criminal Justice Studies program. The Criminal Justice Studies Program is a part of the Department of Sociology, Anthropology, and Social Work.

Criminal Justice Advisory Committee

Leslie Picca, Interim Director

Additional faculty who teach in the Criminal Justice Studies Program are located in several social science departments including: Sociology, Anthropology, and Social Work; Psychology; and Political Science. Faculty who teach in the program: Apolito (Criminal Justice Studies/Sociology), Becker (Sociology), Berry (Psychology), Davis-Berman (Social Work), Donnelly (Sociology), Ghere (Political Science), Holcomb (Sociology), Ingram (Political Science), Longazel (Sociology), Majka, T. (Sociology), Martorano Miller (Political Science), Neeley (Political Science), Reeb (Psychology), Small (Sociology), Thompson-Miller (Sociology).

Bachelor of Arts, Criminal Justice Studies-Option A (CJS) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	

REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

- ¹ Completed with ASI 110 and ASI 120.
- ² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- ³ Completed with ENG 200H or ASI 120.
- ⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics) ¹	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements ^{2,3} 37

CJS 101	Introduction to Criminal Justice Studies	3-4
CJS 207	Research Methods in Criminal Justice Studies ^{1,4}	3
CJS 408	Senior Seminar	1
CJS 409	Senior Capstone (Satisfies CAP Major Capstone)	3
SOC 305	Criminological Theory	3
Select two behavior courses from:		6
PSY 363	Abnormal Psychology	
PSY 461	Current Implications of Drug Dependency	
SOC 325	Deviant Behavior	
SOC 327	Criminology	
SOC 410	Victimology	
SWK 325	Child Abuse	
Select two institutions courses from:		6
CJS 303	Theory and Practice of Corrections	
POL 303	State & Local Government	

POL 305	Introduction to Public Administration	
POL 360	Urban Politics & Policy	
SOC 323	Juvenile Justice	
SWK 305	Social Services in the Health Field	
Select two law courses from:		6
CJS 305	Criminal Law	
CJS 315	Criminal Procedure	
POL 301	The American Judicial Process	
POL 411	Constitutional Law	
POL 450	Civil Liberties	
SOC 326	Law & Society	
Select two social structure courses from:		6
CJS 322	Policing & Society	
CJS 336	Comparative Criminal Justice Systems	
SOC 328	Racial & Ethnic Relations	
SOC 339	Social Inequality	
SOC 351	Urban Sociology	

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

¹ CJS 207, Research Methods in Criminal Justice Studies, requires as a prerequisite MTH 207 or PSY 216 or SOC 308. Neither PSY 216 nor SOC 308 fills the three semester hours mathematics requirement for graduation.

² Internships and independent studies may be taken in CJS, POL, PSY, and SOC that have a Criminal Justice Studies emphasis. No more than six semester hours of internships may be taken. Also to be offered is CJS 300 Criminal Justice Studies Career Development, CJS 399, Special Topics in Criminal Justice Studies and CJS 497, Service Learning Experience. This course work is in addition to the thirty-six hours required for a CJS interdisciplinary major in the Option A, total program sequence. They are not to be used as substitute courses for those listed in the areas of behavior, institutions, law and/or social structure, unless approved in advanced by the director of the Criminal Justice Studies program and the College of Arts and Sciences.

³ May include CAP components.

⁴ May substitute SOC 208, POL 207, or PSY 217.

Bachelor of Arts, Criminal Justice Studies-Option B (CJS) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3

CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics) ¹	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements ^{2, 3, 4, 5} 22

CJS 207	Research Methods in Criminal Justice Studies ¹	3
CJS 408	Senior Seminar	1
CJS 409	Senior Capstone (Satisfies CAP Major Capstone)	3
SOC 305	Criminological Theory	3
Select one behavior course from:		3
PSY 363	Abnormal Psychology	
PSY 461	Current Implications of Drug Dependency	
SOC 325	Deviant Behavior	
SOC 327	Criminology	
SOC 410	Victimology	
SWK 325	Child Abuse	
Select one institutions course from:		3
CJS 303	Theory and Practice of Corrections	
POL 303	State & Local Government	
POL 305	Introduction to Public Administration	
POL 360	Urban Politics & Policy	
SOC 323	Juvenile Justice	
SWK 305	Social Services in the Health Field	
Select one law course from:		3
CJS 305	Criminal Law	
CJS 315	Criminal Procedure	

POL 301	The American Judicial Process	
POL 411	Constitutional Law	
POL 450	Civil Liberties	
SOC 326	Law & Society	
Select one social structure course from:		3
CJS 322	Policing & Society	
CJS 336	Comparative Criminal Justice Systems	
SOC 328	Racial & Ethnic Relations	
SOC 339	Social Inequality	
SOC 351	Urban Sociology	

Breadth

ASI 150	Introduction to the University Experience	1
ENG 316	Elements of Style	3
ENG 370	Report & Proposal Writing (Satisfies CAP Inquiry)	3
or ENG 372	Business and Professional Writing	
or ENG 474	Argument and Style	
Total Hours to total at least		124

¹ CJS 207, Research Methods in Criminal Justice Studies, require as a prerequisite MTH 207 or PSY 216 or SOC 308. Neither PSY 216 nor SOC 308 fills the three semester hours mathematics requirements for graduation. May substitute SOC 208, POL 207, PSY 217 for CJS 207.

² To be admitted as a major in the program under Option B, a transfer student must have received an accredited associate degree in corrections, law enforcement, police administration, police science, or a similar field of criminal justice and must have a 2.5 cumulative grade-point average on a 4.0 grading system. For criminal justice studies majors who have completed the basic requirements for an accredited two-year criminal justice degree, sixty semester hours beyond the associate degree is suggested, which includes a minimum of twenty-one semester hours in the program. The Liberal Studies Curriculum is required for all criminal justice studies transfer majors in addition to the baccalaureate degree requirements if they were not included in the candidates' associate degree programs.

³ Internships and Independent Studies may be taken in CJS, POL, PSY, and SOC that have a criminal justice studies emphasis. No more than six semester hours of internships may be taken. Also to be offered is CJS 300 Criminal Justice Studies Career Development, CJS 399, Special Topics in Criminal Justice Studies and CJS 497, Service Learning Experience. This course work is in addition to the hours required for a CJS interdisciplinary major in the Option B, transfer program sequence. They are not to be used as substitute courses for those listed in the areas of behavior, institutions, law and/or social structure, unless approved in advance by the director of the Criminal Justice Studies program and the College of Arts and Sciences.

⁴ To be considered a viable candidate for graduation, a student must have completed a minimum of 124 semester hours with accepted transfer credits.

⁵ May include CAP components.

Minor in Criminal Justice Studies (CJS)

Criminal Justice Studies

CJS 101	Introduction to Criminal Justice Studies	3-4
SOC 305	Criminological Theory	3

Select four CJS courses (300/400 level) ¹	12
Total Hours	18-19

¹ One course from each of the four areas involving behavior, institutions, law, and social structure.

First Year		Hours Spring	Hours
Fall			
ASI 150		1 PSY 101 or POL 201 (Social Science elective)	3
CJS 101		3 ENG 100 (CAP Humanities Commons)	3
SOC 101 (Social Science - intro level)		3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)		3 INSS (CAP Natural Science w/ lab)	4
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)		3 Language 141	4
Language 101		4	
		17	17
Second Year		Hours Spring	Hours
Fall			
CMM 100 (CAP Communication)		3 ENG 200 (CAP Writing Seminar)	3
MTH 114 or 207 (CAP Mathematics)		3 CJS 300	1
INSS (CAP Natural Science w/lab)		4 Behavior course	3
Behavior course		3 Institutions course	3
CAP Arts / Creative and Performing		3 INSS Natural Science	3
		Language 201 or contextual course	3
		16	16
Third Year		Hours Spring	Hours
Fall			
SOC 305 (Social Science - 300/400 level)		3 CJS 408	1
CJS 207 or SOC 208		3 SSC 200 (CAP Social Science)	3
Institutions course		3 Law course	3
PSY 101, ECO 203, or POL 201 (Social Science - elective)		3 CAP Inquiry	3
CAP Faith Traditions		3 CAP Advanced Philosophy/Religious Studies	3
		CAP Advanced Historical Studies	3
		15	16

Fourth Year

Fall	Hours Spring	Hours
CJS 409 (Satisfies CAP Major Capstone)	3 Social Structure	3
Law course	3 Literature	3
Social Structure	3 CAP Diversity and Social Justice	3
CAP Integrative	3 CAP Advanced Philosophy/Religious Studies	3
CAP Practical Ethical Action	3 General Elective	3
	15	15

Total credit hours: 127

Courses**CJS 101. Introduction to Criminal Justice Studies. 3-4 Hours**

Introduction to the field of criminal justice studies, stressing the theoretical foundations, origin, nature, methods, and limitations of criminal justice studies as a college curriculum.

CJS 207. Research Methods in Criminal Justice Studies. 3 Hours

Review of the nature, language, and processes of inquiry involving experiments, studies, surveys, and investigations. The instrumentation, types, and structures of content analysis, questionnaires, interviews, and structured observation, including, analytic techniques, data processing resources, and preparation of research reports are also examined. Prerequisite(s): MTH 207 or PSY 216 or SOC 308.

CJS 300. Criminal Justice Studies Career Development. 1 Hour

Exploration of career opportunities and the professional career placement process including setting goals and identifying educational objectives, noting professional concerns, the role of a given criminal justice organization, and assessing experiences.

CJS 303. Theory and Practice of Corrections. 3 Hours

Study of the organization and administration of correctional institutions and other detention facilities with emphasis on probation, parole, and reentry systems to include the rehabilitation and treatment of the incarcerated with reference to correctional law cases. Prerequisite(s): CJS 101 or SSC 200 or Department Chair.

CJS 305. Criminal Law. 3 Hours

Principles of criminal liability, preparation of case materials, court procedures, and case disposition.

CJS 315. Criminal Procedure. 3 Hours

Fundamentals of criminal procedure: arrest, search, and seizure; interrogation, constitutional limitations upon state and federal rules of criminal procedure. Prerequisite(s): A course in criminal law.

CJS 322. Policing & Society. 3 Hours

Analyzes the history of policing in society and assesses the social and political forces that are correlated with both the rise of formal policing and the variety of structures law enforcement agencies have assumed. Reviews the primary functions of policing in American society and examines those issues affecting federal, state, county, municipal and private policing.

CJS 336. Comparative Criminal Justice Systems. 3 Hours

Survey of cross-cultural uniformities and diversities in law-enforcement agencies, correctional systems, and the courts in selected countries. Attention is focused on transnational crime and justice. Sophomore standing or higher.

CJS 347. Senior Project Design. 1 Hour

Preparation for the criminal justice capstone course with a focus on a workable research topic, literature review, and research methods design. Required for Criminal Justice majors. Prerequisite(s): SOC 208 or POL 207 or PSY 217; SOC 305 (may be taken as a corequisite).

CJS 399. Special Topics in Criminal Justice Studies. 1-3 Hours

An extensive examination of a current topic affecting the criminal justice system and its law enforcement, corrections or judicial components. May be repeated to a maximum of three semester hours when the topic changes.

CJS 408. Senior Seminar. 1 Hour

Preparation for a criminal justice capstone experience. Students will explore vocational and career aspects of criminal justice and criminological disciplines. Required for Criminal Justice majors. Prerequisite(s): SOC 208 or POL 207 or PSY 217; SOC 305 (SOC 305 may be taken as a corequisite).

CJS 409. Senior Capstone. 3 Hours

Capstone experience in criminal justice studies consisting of a seminar on research, writing, and ethics in criminology and criminal justice with a project and a written and oral presentation; students will reflect on how criminological research will influence their professional and personal activities and how they will serve their communities. Prerequisite(s): CJS 408 or permission of instructor.

CJS 440. Independent Study. 3 Hours

Directed study and research on selected topics of significant academic publications in law enforcement and criminal justice. Prerequisite(s): An introductory CJS course; permission of instructor.

CJS 447. Senior Seminar in Criminal Justice Studies. 3 Hours

Capstone experience in criminal justice studies consisting of a seminar on research and writing in criminology and criminal justice, an empirical research project of the student's choosing, and a written and oral presentation of the research.

CJS 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

CJS 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved CJS 477; approval of University Honors Program.

CJS 495. Internship in Criminal Justice I. 1-3 Hours

Supervised experience solely in a civilian capacity in a criminal justice or law-enforcement agency. Open to pre-service criminal justice studies majors only; in-service students do not qualify. Students who enroll for internship credit are not given a stipend. Credit granted only under Grading Option Two. Prerequisite(s): 2.5 cumulative grade-point average; sophomore status; permission of program director.

CJS 496. Internship in Criminal Justice II. 1-3 Hours

Continuation of CJS 495.

CJS 497. Service Learning Experience. 1 Hour

Supervised community research or service experience that complements a specific upper division course in Criminal Justice Studies. No more than three semester hours of Social Science 497 credits can count for graduation. Repeatable up to three semester hours. Prerequisite(s): Permission of instructor. Corequisite(s): CJS course (300- or 400-level).

Economics

Major:

- Bachelor of Arts, Economics (p. 164)

Minor:

- Economics (p. 165)

In cooperation with the Department of Economics and Finance in the School of Business Administration, the College of Arts and Sciences offers the degree of Bachelor of Arts with a major in economics.

The field of economics covers topics ranging from making sound business decisions to tackling some of society's most challenging social issues. Economics students learn to think critically about how choices are made in the presence of scarcity. An undergraduate education in economics enables individuals to better understand and help resolve problems in today's business and society.

The major in economics requires 30 semester hours of courses in economics: ECO 203, ECO 204, ECO 346, ECO 347, ECO 410 or ECO 441, ECO 490, and four elective courses in economics.

A minor in economics is also available, requiring 18 semester hours of courses in economics: ECO 203, ECO 204, ECO 346, ECO 347, and two elective courses in economics.

Information on a specialized degree, applied mathematical economics (MTE), is offered by the Department of Mathematics.

Faculty

Trevor Collier, Chairperson

Professors Emeriti: Frasca, Gustafson

Edmund B. O'Leary Chair in Economics: John Ruggiero

Professors: Caporale, Ruggiero

Associate Professors: Collier, Poitras

Assistant Professors: Haskell, Williams

Lecturer: John

Bachelor of Arts, Economics (ECO) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	

Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.² Or ENG 100A and ENG 100B, or ENG 200H, by placement.³ Completed with ENG 200H or ASI 120.⁴ Must include two different disciplines and accompanying lab.**Liberal Studies Curriculum**

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics (Satisfies CAP Mathematics) ^{1,2}	6-9
MTH 138 Calculus I with Review ³ or MTH 148 Introductory Calculus I	
MTH 207 Introduction to Statistics ⁴	
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences, excluding ECO courses (Includes CAP Social Science)	12

Major Requirements 30

ECO 203 Principles of Microeconomics ⁵	3
ECO 204 Principles of Macroeconomics ⁵	3
ECO 346 Intermediate Microeconomic Analysis ⁶	3
ECO 347 Intermediate Macroeconomic Analysis	3
ECO 410 Bus&Eco Forecasting	3
or ECO 441 Econometrics	
ECO 490 Senior Seminar in Applied Economics (Satisfies CAP Major Capstone)	3

ECO electives (300/400 level) 12

Breadth

ASI 150 Introduction to the University Experience	1
Total Hours to total at least	124

¹ In addition, MTH 149 strongly recommended.² CAP Mathematics is satisfied with MTH 129, MTH 148, MTH 168, or MTH 207.

³ MTH 168 or MTH 128-MTH 129 may be substituted with permission of department chairperson.

⁴ May substitute DSC 210-DSC 211.

⁵ Minimum C grade

⁶ ECO 340 may be substituted for ECO 346 with permission of the department chairperson.

Minor in Economics (ECO)

Economics

ECO 203	Principles of Microeconomics ¹	3
ECO 204	Principles of Macroeconomics ¹	3
ECO 346	Intermediate Microeconomic Analysis ²	3
ECO 347	Intermediate Macroeconomic Analysis	3
Select two ECO courses (300/400 level)		6
Total Hours		18

¹ ECO 300 and an upper level ECO course can substitute for ECO 203 and ECO 204.

² ECO 340 may be substituted for ECO 346 with permission of department chairperson.

First Year

Fall	Hours Spring	Hours
ASI 150	1 ECO 204	3
ECO 203	3 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 SCI 190 & 190L (CAP Natural Science w/ lab)	4
MTH 137 (Satisfies CAP Mathematics)	4 MTH 138	4
SOC 101 (Social Science - elective)	3	
	17	17

Second Year

Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 ECO 346	3
CMM 100 (CAP Communication)	3 SCI 210 & 210L (CAP Natural Science w/ lab)	4
MTH 207	3 SSC 200 (CAP Social Science)	3
Social Science - intro level not ECO	3 Language 141	4
Language 101	4	
	16	14

Third Year

Fall	Hours Spring	Hours
ECO 347	3 300/400 Eco elective	3
SCI 230 (INSS Natural Science)	3 300/400 Eco elective	3

CAP Integrative	3 CAP Arts / Creative and Performing	3
Social Science - 300/400 level not ECO	3 CAP Faith Traditions	3
Language 201 or contextual course	3 CAP Practical Ethical Action	3
	15	15

Fourth Year

Fall	Hours Spring	Hours
ECO 410 or 441	3 ECO 490 (Satisfies CAP Major Capstone)	3
300/400 Eco elective	3 300/400 Eco elective	3
CAP Inquiry	3 CAP Advanced Philosophy/Religious Studies	3
CAP Advanced Philosophy/Religious Studies	3 CAP Advanced Historical Studies	3
General elective	3 CAP Diversity and Social Justice	3
	15	15

Total credit hours: 124

Courses

ECO 203. Principles of Microeconomics. 3 Hours

An introduction to consumer and producer behavior in a market economy, demand and supply, pricing and firm behavior under perfect and imperfect competition, and the distribution of income. Discussion of current topics in microeconomics may be included.

ECO 204. Principles of Macroeconomics. 3 Hours

Introductory economic analysis of the macroeconomy; the determination of gross national product, employment, inflation and the interest rate in the U.S. economy. Government policy, money and banking, and international trade are analyzed.

ECO 301. Seminar in Market Economics. 3 Hours

Market solutions to economic and political issues. Topics vary, but may include issues relating to drugs, gun control, environmental concerns, government interventions, economic and political freedom, and others. Team taught course. Prerequisite(s): ECO 203.

ECO 340. Managerial Economics. 3 Hours

Application of economic models to managerial decision making. Topics include demand analysis, forecasting demand, short-run cost analysis, long-run cost and production functions, pricing, and risk and uncertainty. May not get credit for both ECO 340 and ECO 346. ECB, ECO, MTE majors & minors only. Prerequisite(s): ECO 203.

ECO 346. Intermediate Microeconomic Analysis. 3 Hours

Analysis of the theory of consumer behavior, production theory, equilibrium of the firm, price determination in various market structures, distribution of income, allocation of resources, and welfare economics. May not get credit for both ECO 346 and ECO 340. ECO, ECB, and MTE majors and minors only. Prerequisite(s): ECO 203.

ECO 347. Intermediate Macroeconomic Analysis. 3 Hours

National income accounting and the determination of the level of income and employment; classical, Keynesian, and post-Keynesian models; private, government, and foreign sectors; theories of inflation and economic growth. ECO, ECB, and MTE majors and minors only. Prerequisite(s): ECO 204, ECO 203.

ECO 390. Antitrust Economics. 3 Hours

Study of how economic analysis has been applied in the interpretation of the antitrust statutes. Examines major anti-trust laws and relevant case law; reviews economic theories of market behavior. Prerequisite(s): ECO 203.

ECO 410. Business & Economic Forecasting. 3 Hours

Forecasting techniques, including ARIMA time series models, econometric models, moving averages, exponential smoothing, and time series decomposition, are used to forecast business and economic variables. Data sources, selection of appropriate forecasting tools and models, and evaluation of forecast results are studied. Prerequisite(s): ECO 203, ECO 204; Statistics (DSC 211 or MTH 207 or MTH 367 or MTH 412).

ECO 415. Game Theory with Business Applications. 3 Hours

Introductory course in strategic decision making; provides a thorough discussion of the basic techniques of applied game theory and of systematic thinking in making business decisions. Among the topics covered with applications to business are equilibrium strategies, understanding situations involving conflict and cooperation, auction design and bidding strategy, and bargaining and negotiations. Prerequisite(s): ECO 203.

ECO 435. Economics of the Environment. 3 Hours

Introduction to the economics of the global environment including an analysis of market failure as a cause of environmental degradation. Topics covered include cost-benefits analysis, criteria for public investment, regulation of the environment, and the sustainable global environment. Prerequisite(s): ECO 203.

ECO 441. Econometrics. 3 Hours

Training in the art of making economic measurements from empirical data using regression analysis as the principle tool; use of computer software to estimate and test regression equations; interpretation of results using statistical inference. Prerequisite(s): ECO 203, ECO 204, [one of the following DSC 211, MTH 207, MTH 367, or MTH 412].

ECO 442. Money & Banking. 3 Hours

Principles of money and monetary systems; commercial banking and the role of the Federal Reserve System; monetary theory and policy; the mechanism of international payments. Prerequisite(s): ECO 203, ECO 204.

ECO 445. Public Finance. 3 Hours

The economic aspects of government finance at the local, state, and especially the national level; the behavioral effects of various taxes, efficiency in spending, the changing role of the U.S. government, fiscal policy, and intergovernmental revenue and expenditure programs; emphasis on relating analytical tools to current developments. Prerequisite(s): ECO 203, ECO 204.

ECO 460. Economic Development & Growth. 3 Hours

Study of various dynamic economic theories of growth and structural change; the role of particular factors of production and related noneconomic variables in the development process, primarily, though not exclusively, of Third World nations. Prerequisite(s): ECO 203, ECO 204.

ECO 461. International Economics. 3 Hours

Major issues surrounding international trade and finance, the economic interdependence of nations and businesses, essential theoretical and empirical tools necessary to monitor and analyze international economic phenomena, and the application of these tools to contemporary business problems and issues. Prerequisite(s): ECO 203, ECO 204.

ECO 471. Labor Economics. 3 Hours

Theory of labor supply and demand, human capital theory, and the process by which wages are determined in various factor markets; applications to topics of unemployment, unions, migration, discrimination, and skill differentials. Prerequisite(s): ECO 203, ECO 204.

ECO 480. Sports Economics. 3 Hours

The application of economic analysis to the sports industry. Examines demand and efficiency in the product market; the labor market for professional athletes and mechanisms for restricting competition in that market; problems in achieving an efficient allocation of resources in the sports industry. Prerequisite(s): ECO 203.

ECO 480H. Sports Economics. 3 Hours

The application of economic analysis to the sports industry. Examines demand and efficiency in the product market; the labor market for professional athletes and mechanisms for restricting competition in that market; problems in achieving an efficient allocation of resources in the sports industry. Prerequisite(s): ECO 203; (DSC 211 or MTH 207) or equivalent.

ECO 485. Urban & Regional Economics. 3 Hours

Treatment of certain theoretical concepts such as location theory and theories of land use and land rent; an economic interpretation for the existence of cities; applying economic analysis to the problems of traffic congestion, pollution, race, poverty, and urban sprawl. Prerequisite(s): ECO 203.

ECO 488. Production Economics & Performance Evaluation. 3 Hours

Intermediate course in theoretical and applied microeconomic production theory; provides a thorough discussion of the basic techniques of applied production theory and performance evaluation of decision making units. Topics include returns to scale, technical and allocative efficiency, benchmarking, environmental costs, and programming. Prerequisite(s): ECO 203.

ECO 490. Senior Seminar in Applied Economics. 3 Hours

The capstone seminar course is required for all Economics and Business Economics majors. Students apply economic analysis to topics of interest through projects, presentations, and group discussion, as directed by the instructor. The course provides students the opportunity to extend their proficiency in theoretical, mathematical, and statistical methods learned in previous economics courses through practical application. Typically offered during the spring semester. Economics or Business Economics majors only. Prerequisite(s): 12 semester hours in Economics, including one (1) of the following: ECO 441 or ECO 410. Senior standing only.

ECO 491. Honors Thesis. 3 Hours

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

ECO 492. Honors Thesis. 3 Hours

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

ECO 494. Seminar. 3 Hours

Subject varies from time to time. May be taken more than once if topic changes. Prerequisites to be announced.

ECO 496. Cooperative Education. 3 Hours

Optional full-time work period off campus alternating with study period on campus. Does not count toward economics major. Permission of chairperson required. Economics or Business Economics majors only. Prerequisite(s): Permission of department chairperson.

ECO 497. Internship for General Elective Credit. 1-3 Hours

Practical work experience associated with career development and career exploration relating to the student's major. Permission of the department chair or designee required. Does not replace economics courses for the economics major. Economics or Business Economics majors only. Prerequisite(s): Forty-five semester hours of credit.

ECO 498. Independent Study in Economics. 1-6 Hours

Directed readings and research in selected fields of economics. The number of semester hours will depend on the amount of work chosen. The course will involve periodic discussions with faculty and other students in the course. May be taken more than once for additional credit. Prerequisite(s): 3.0 GPA in economics with a minimum of nine semester hours in economics; nomination by faculty; permission of the department chairperson.

English

Major:

- Bachelor of Arts, English (p. 167)

Minor:

- English (p. 169)

The University requirement in English composition is satisfied by the completion of English 100 (ENG 100A and ENG 100B), ENG 200 or ENG 200H or ASI 120. Completing this requirement is a prerequisite for most other English courses. For placement information, see Composition Competencies in the Degree Requirements section. For additional details, consult the department chairperson or the director of writing programs.

Students majoring in English must complete at least 42 semester hours of English courses, including first-year composition, and at least 24 semester hours at the 300/400 level.

A minor in English consists of 12 semester hours beyond the composition requirement.

Students in B.A. programs can pursue State of Ohio teacher licensing in Integrated Language Arts through the dual-degree B.A. and B.S.E. program conducted in conjunction with the Department of Teacher Education in the School of Education and Health Sciences. Candidates must meet set standards for admission to this program, which must be verified by the Transfer Officer in the Office of the Dean, School of Education and Health Sciences. For further information, consult the Department of English chairperson.

The English department awards a writing certificate to students who achieve a 3.0 grade-point average in 18 semester hours of approved writing and writing-related courses, including at least 12 semester hours of upper-divisional (300-400) courses, and who successfully complete an approved writing portfolio and an assigned, impromptu writing task. The English department also offers a writing internship program. For details on these advanced writing opportunities, consult the department chairperson.

Faculty

R. Andrew Slade, Chairperson

Tereza Szeghi, Director of Graduate Studies

Laura Vorachek, Director of Undergraduate Studies

Ann Biswas, Director of Writing Programs

Professors Emeriti: August, Henninger, Labadie, K. Marre, L. Marre, H.

Martin, Means, Murphy, Palumbo, Patrouch, Stockum, Youngkin

Professors: Farrelly, Kimbrough, McCombe, Pici, Strain, Trollinger, Wilhoit

Associate Professors: Bardine, Boehnlein, Carrillo, Krummel, Morgan,

Potter, Slade, Szeghi, Vorachek

Assistant Professors: Bloom-Poljar, Esseili, Fine, Haan, Li, Mackay,

Naruse, Thomas, Toll

Lecturers: Adams, Biswas, Burnside, Cook, Craig, DeAloia, Doench,

Getrost, Keane-Sexton, Kisel, Light, Lyon, MacLeod, E. Martin, Patterson,

Rowe, Taaffe

Bachelor of Arts, English (ENG) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

- ¹ Completed with ASI 110 and ASI 120.
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
³ Completed with ENG 200H or ASI 120.
⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements ^{1, 2, 3} 42

ENG 200	Writing Seminar II	3
or ENG 200H	Writing Seminar II	
or ASI 120	The Development of Western Culture in a Global Context	
ENG 220	Foundations of Textual Analysis & Research	3
ENG 386	Genre in Writing	3
Select one early literature survey course from:		3
ENG 301	Survey of Early English Literature	
ENG 303	Survey of Early American Lit	
Select one additional literature survey course from:		3
ENG 301	Survey of Early English Literature	
ENG 302	Survey of Later British Literature	
ENG 303	Survey of Early American Lit	
ENG 304	Survey of Later American Lit	
ENG 498	Capstone I-Project	3
ENG 499	Capstone II-Seminar (Satisfies CAP Major Capstone)	0

Select one track from:

Literature (LIT) 24

ENG 388	Introduction to Literary Theory	3
Select one approved authors course from:		3
ENG 362	Shakespeare	
ENG 363	Shakespeare's Worlds	
ENG 365	Studies in an Author	
ENG 405	Chaucer	
ENG 431	Milton	
ENG 490	Research Seminar-Literature	3
Select another approved research seminar from:		3
ENG 490	Research Seminar-Literature	
ENG 497	Research Seminar-Writing	
ENG 496	Research Seminar-Teaching	
Select one approved ENG diversity course ⁴		3
ENG electives (300-400 level) ⁵		9

Teaching (ETC) ⁶ 24

ENG 391	Introduction to Composition Theory	3
ENG 393	Approaches to Literature for Middle and High School	3
ENG 466	TESOL Methods for Teaching English Language Learners	3

Select two ENG language courses from: 6

ENG 468	Introduction to Linguistics	
ENG 470	History of English	
ENG 472	The Structure of English	

Select one approved diversity course ⁴ 3

ENG 496	Research Seminar-Teaching	3
ENG elective (300-400 level)		3

Writing - Creative Writing (WCW) 24

ENG 280	Introduction to Creative Writing	3
ENG 389	Introduction to Poetics and Narrative Theory	3

Select two workshops from: 6

ENG 308	Intermediate Poetry Workshop	
ENG 310	Intermediate Fiction Workshop	
ENG 312	Advanced Writing of Drama	
ENG 315	Creative Nonfiction	
ENG 460	Advanced Poetry Workshop	
ENG 462	Advanced Fiction Workshop	

Select one approved new media course from: 3

ENG 375	Writing for the Web	
ENG 497	Research Seminar-Writing	3

Select one approved ENG diversity course ⁴ 3

ENG electives (300-400 level) 3

Writing - Rhetoric & Composition (WRC) 24

ENG 391	Introduction to Composition Theory	3
or ENG 390	Introduction to Rhetorical Theory	

ENG 374 Visual Rhetoric 3

Select one approved new media course from: 3

ENG 375	Writing for the Web	
ENG 377	Writing in Social Contexts	3
ENG 474	Argument and Style	3
ENG 497	Research Seminar-Writing	3

Select one approved diversity course ⁴ 3

ENG elective (300-400 level) 3

Writing - Professional & Technical (WPT) 24

ENG 390 Introduction to Rhetorical Theory 3

Select one analysis course from: 3

ENG 359	Discourse Analysis (Select one analysis course)	
ENG 366	Health Literacy and Social Justice	
ENG 368	Introduction to Professional and Technical Writing	
ENG 378	Professional and Technical Writing in Global Contexts	

Select two practice courses from: 6

ENG 369	Writing in Organizations	
ENG 370	Report & Proposal Writing	
ENG 371	Technical Communication	
ENG 372	Business and Professional Writing	
ENG 373	Writing in the Health Professions	

Select one approved new media course from: 3

ENG 375 Writing for the Web

Select one research seminar: 3

ENG 497	Research Seminar-Writing	
ENG 475	Usability in Technical Writing	
Select one approved diversity course ⁴		3
ENG elective (300-400 level)		3
Self-Designed (ESD)		24
Select one approved ENG theory course ⁷		3
Select one approved ENG diversity course ⁴		3
Select one approved ENG research seminar ⁸		3
Approved ENG electives		15
Breadth		
ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

- ¹ Satisfies CAP First and/or Second-Year Writing Seminar.
- ² May include CAP Arts.
- ³ ENG 100A and ENG 100B together will satisfy the requirement of 3 semester hours of ENG 100. ASI 120 satisfies the requirement of 3 semester hours of ENG 200H. Students exempt from ENG 200H due to ACT/SAT scores still need to complete 42 semester hours for the major.
- ⁴ Approved courses for the English major diversity requirement include: ENG 333, ENG 335, ENG 336, ENG 339, ENG 340, ENG 341, ENG 345, ENG 346, ENG 360, and ENG 366.
- ⁵ At least 9 of the 18 required credit hours in ENG electives and research seminars must be taken in approved literature courses. At least 3 of these 9 hours must be in a literature course designated as "early" (e.g. pre-1800 English literature; pre-1865 American literature). Not all courses in the track may be taken in a single national literary tradition.
- ⁶ Teaching Track students who are also enrolled in the Bachelor of Science in Education degree program in Teacher Education for Adolescent-Young Adult English and Language Arts must fulfill their literature survey requirements with the two early surveys: ENG 301 and ENG 303, and they must take an approved ENG new media course in place of the ENG elective.
- ⁷ Theory course options for the Self-Designed Track include: ENG 388, ENG 389, ENG 390, ENG 391, ENG 476, ENG 488, and ENG 489. The option selected for the Self-Designed Track must also be approved by the academic advisor and department chairperson.
- ⁸ Research seminar options for the Self-Designed Track include: ENG 490, ENG 496, and ENG 497. The option selected for the Self-Designed Track must also be approved by the academic advisor and department chairperson.

Minor in English (ENG)

English	
Select four ENG courses (300/400 level) ¹	12
Total Hours	12

¹ In addition to the composition requirement.

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ASI 120 (CAP Humanities Commons)	8

ASI 110 (CAP Humanities Commons)	7 MTH (CAP Mathematics)	3
Social Science - intro level	3 Language 141	4
Language 101	4	
	15	15
Second Year		
Fall	Hours Spring	Hours
ENG 220	3 ENG 386	3
ENG 303 (or additional ENG literature)	3 ENG 301 (or additional ENG literature)	3
INSS (CAP Natural Science w/lab)	4 CMM 100 (CAP Communication)	3
Language 201 or contextual course	3 SSC 200 (CAP Social Science)	3
Social Science - elective	3 INSS (CAP Natural Science w/lab)	4
	16	16
Third Year		
Fall	Hours Spring	Hours
ENG Concentration	3 ENG Concentration	3
ENG Concentration	3 ENG Concentration	3
CAP Arts / Creative and Performing	3 ENG Concentration	3
CAP Advanced Historical Studies	3 CAP Faith Traditions	3
Social Science - 300/400 level	3 CAP Practical Ethical Action	3
INSS Natural Science	3	
	18	15
Fourth Year		
Fall	Hours Spring	Hours
ENG 498	3 ENG 499 (Satisfies CAP Major Capstone)	0
ENG Research Seminar	3 ENG Concentration	3
CAP Inquiry	3 ENG Concentration	3
CAP Integrative	3 CAP Advanced Philosophy/Religious Studies	3
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
	General elective (optional)	3
	15	15

Total credit hours: 125

Courses

ENG 100. Writing Seminar I. 3 Hours

Introductory composition course focused on personal and academic literacies, with an emphasis on expository writing. Instruction and practice in developing college-level reading, writing, research, and critical thinking skills. Emphasis is on a process approach to writing effective academic prose. Students must pass the course with a grade of C- or higher to satisfy College of Arts and Sciences' composition competency requirement.

ENG 100A. Writing Seminar 1A. 2 Hours

First half of two-semester introductory composition course sequence focused on personal and academic literacies, with an emphasis on expository writing. Instruction and practice in developing college-level reading, writing, research, and critical thinking skills. Emphasis is on a process approach to writing effective academic prose. Students must pass the course with a grade of C- or higher to satisfy College of Arts and Sciences' composition competency requirement. Prerequisite(s): Placement as determined by the Office of the Dean.

ENG 100B. Writing Seminar 1B. 2 Hours

Second half of year-long introductory composition course focused on personal and academic literacies, with an emphasis on expository writing. Instruction and practice in developing college-level reading, writing, research, and critical thinking skills. Emphasis is on a process approach to writing effective academic prose. Students must pass the course with a grade of C- or higher to satisfy College of Arts and Sciences' composition competency requirement. Prerequisite(s): ENG 100A.

ENG 101. College Composition I. 3 Hours

Analysis of the processes of reading and writing aimed at the development and refinement of critical thinking skills, critical reading skills, and critical writing skills. Students must pass course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies.

ENG 102. College Composition II. 3 Hours

Study of appropriate rhetorical structures and styles for analytic, synthetic, and argumentative essays. Practice in developing critical reading and writing skills with an emphasis on writing from sources. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies. Prerequisite(s): ENG 101.

ENG 151. Introduction to Literature. 3 Hours

Critical study of literary forms - fiction, drama, and poetry - representative of various eras and cultures. Prerequisite(s): ENG 100 or ENG 100B or ASI 110 or equivalent. ENG 100 or ENG 100B may be taken as a corequisite.

ENG 198. English Scholars' Seminar. 3 Hours

Study and seminar discussion of selected literary masterworks and appropriate criticism thereof, with equal emphasis on composition. Open by permission only to first-year students in the Berry Scholars Program. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies.

ENG 200. Writing Seminar II. 3 Hours

Variable topic composition course focused on academic discourse, research, and argumentation. Instruction and practice in developing reading, writing, and research skills introduced in ENG 100 and employed across the curriculum. Emphasis on rhetorical analysis and a process approach to writing effective academic arguments. Students must pass the course with a grade of C- or higher to satisfy College of Arts and Sciences' composition competency requirement. Prerequisite(s): ENG 100 or ENG 100B, and sophomore status, or placement as determined by the Dean's Office.

ENG 200H. Writing Seminar II. 3 Hours

Variable theme composition course focused on academic discourse, research, and argumentation. Instruction and practice in developing reading, writing, and research skills introduced in ENG 100 and employed across the curriculum. Emphasis is on rhetorical analysis and a process approach to writing effective academic arguments. Students must pass the course with a grade of C- or higher to satisfy College of Arts and Sciences' composition competency requirement. Prerequisite(s): Placement as determined by the Office of the Dean.

ENG 203. Major British Writers. 3 Hours

Study of four or five writers representative of the principal periods in English literature. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 204. Major American Writers. 3 Hours

Study of four or five writers representative of the principal periods in American literature. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 205. Major World Writers. 3 Hours

Study (in translation) of four or five writers representative of the principal periods in (chiefly Western world) literature, exclusive of English and American literature. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 210. Poetry. 3 Hours

Study of representative examples of a major literary genre. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 220. Foundations of Textual Analysis & Research. 3 Hours

Introduction to the skills and habits of reading, writing, textual analysis and research that are central to the discipline of English. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 230. Topics in Literature. 1-6 Hours

Exploration of varying approaches to the study of literature. Can be repeated under special circumstances. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 242. Sophomore Honors. 3 Hours

Seminar in which selected works from the literature of Western civilization are studied. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 270. Reading & Writing in the American University. 4 Hours

Provides students who are English language learners with an understanding of rhetorical principles and the conventions of Western academic literacy as well as competence in applying those principles and conventions for success as writers in an American university. Prerequisite(s): Permission of department chairperson.

ENG 271. Technical Writing Laboratory. 2 Hours

Designed to complement Engineering Technology courses by analyzing representative technical reports and documents and by providing guidance in planning, drafting, and revising writing assignments. Its focus is on the discipline-specific types of writing in the professional technical/engineering fields including laboratory reports, correspondence, technical descriptions, specifications, and proposals. Prerequisite(s): ENG 270.

ENG 271L. Technical Writing Laboratory. 2 Hours

Designed to complement Engineering Technology courses by analyzing representative technical reports and documents and by providing guidance in planning, drafting, and revising writing assignments. Its focus is on the discipline-specific types of writing in the professional technical/engineering fields including laboratory reports, correspondence, technical descriptions, specifications, and proposals. Prerequisite(s): ENG 270.

ENG 272. Writing & Research. 3 Hours

Study and practice of research methods commonly required to complete writing assignments across the curriculum. Formulation of research questions, use of appropriate methods to gather data, analysis of information, and creation of effective written documents. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 280. Introduction to Creative Writing. 3 Hours

Introduction to writing poetry, short fiction, and creative non-fiction. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 282. Introduction to Writing Poetry. 3 Hours

Beginning course in analyzing and writing poetry. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 284. Introduction to Writing Fiction. 3 Hours

Beginning course in analyzing and writing short fiction. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 286. Introduction to Writing Drama. 3 Hours

Beginning course in analyzing and writing short plays. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 300. Literary Analysis & Research - Poetry. 3 Hours

Detailed analysis of selected poems, with attention to their use of traditional forms and conventions, combined with training in standard methods of interpretation and research. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 301. Survey of Early English Literature. 3 Hours

Survey of English literature from the Medieval period to the end of the eighteenth century. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 302. Survey of Later British Literature. 3 Hours

Survey of British literature from the early nineteenth century Romantic period to the present. Emphasis is placed on a critical engagement with creative literary genres, including poetry, fiction, drama and prose. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 303. Survey of Early American Lit. 3 Hours

Survey of American literature from the Colonial period to 1865. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 or equivalent.

ENG 304. Survey of Later American Lit. 3 Hours

Survey of American literature from 1865 to the present. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 or equivalent.

ENG 305. Survey of American Literature. 3 Hours

Survey of American literature from the Colonial period to the present. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 306. Survey of Continental Literature. 3 Hours

Survey of continental European literature from Homer to the present. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 307. Varieties of English. 3 Hours

Introduction to regional, social, and ethnic varieties of English in North America and throughout the world, focusing on the relationships among English language use, culture, power, status, and identity. Prerequisite(s): English 100, 100B, 200H, or ASI 110 or equivalent.

ENG 308. Intermediate Poetry Workshop. 3 Hours

Intensive practice in the writing of poems. Prerequisite(s): ENG 282 or permission of department chairperson.

ENG 310. Intermediate Fiction Workshop. 3 Hours

Intensive practice in the writing of fiction. Prerequisite(s): ENG 284 or permission of department chairperson.

ENG 312. Advanced Writing of Drama. 3 Hours

Intensive practice in the writing of plays. Prerequisite(s): ENG 286 or permission of department chairperson.

ENG 313. Social Justice & Dramatic Literature. 3 Hours

Survey of dramatic literature that engages issues pertaining to diversity and social justice. Survey may include domestic and global dramatic literatures that grapple with processes of identity, representation, and performing the "other."

ENG 315. Creative Nonfiction. 3 Hours

Study, analysis, and writing of a number of creative nonfiction forms, including memoir, personal essay, biography, opinion essay, and weblogs. Focus on writing process, rhetorical awareness, style, and voice in expressive writing. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 316. Elements of Style. 3 Hours

Study of stylistic options available to all writers. Examination of and practice in adapting writing style for various audiences and purposes, altering style to achieve desired effects, and developing a distinctive written voice. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 317. Contemporary Poetry. 3 Hours

Study of selected poems by recent writers. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 318. Detective Fiction. 3 Hours

Introduction to detective fiction, focusing on its developments, conventions, subgenres and themes, including crime and concepts of justice. Emphasis is placed on the methods of inquiry in literary studies with the aim of developing students' critical reading and writing skills. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 (or equivalent).

ENG 319. Contemporary Fiction. 3 Hours

Study of selected novels and short fiction by recent writers. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 320. Contemporary Drama. 3 Hours

Study of selected plays to illustrate major tendencies of modern drama. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 321. Reading Popular Music. 3 Hours

A focus on popular music texts and scholarly approaches to these texts drawn from a wide range of academic disciplines. Assignments and in-class activities will emphasize critical reading and writing skills as applied to both the popular music texts and the secondary sources which analyze them. Course may be repeated as topics change. Prerequisite(s): ENG 200 or ENG 200H or ASI 120.

ENG 322. Masterpieces of World Literature. 3 Hours

Intensive study of major literary works representative of various cultures. Works are studied in translation, although an English language work or two may be included for appropriate comparison. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 323. Literature of the Christian Tradition. 3 Hours

Study of literary works that form part of the Christian religious tradition. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 324. The Novel. 3 Hours

Consideration of selected novels to illustrate various fictional modes. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 325. Science Fiction. 3 Hours

Survey of science fiction with detailed analysis of selected novels and short fiction. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 326. Sport & Literature. 3 Hours

An historical approach to analyzing the function of sport in society and literature, from Greek times to contemporary times. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 327. Studies in Popular Fiction. 3 Hours

Analysis of selected artifacts of popular culture with reference to serious literature. May be repeated as topics change. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 328. American Nobel Authors. 3 Hours

Analysis and discussion of the works of several American Nobel Prize winners in the field of literature. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 329. Short Story. 3 Hours

Study of the techniques employed in the writing of the short story. Analysis of various models of the short story. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 330. Development of Drama. 3 Hours

Study of the historical development of the drama from its beginnings to the nineteenth century. Analysis of plays from each significant period. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 331. Studies in Film. 3 Hours

Studies in special topics in film to introduce students to the conceptual and analytical practices of cinema as an art form. Emphasis is placed on a critical engagement with the formal and stylistic dimensions of motion pictures, as well as discussions of the various roles that the cinema plays in society. May be repeated as topics change. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 332. Studies in Literature & Film. 3 Hours

Studies in literary texts and the film treatments of those texts. May be repeated as topics change. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 333. Images of Women in Literature. 3 Hours

Examination of significant works from literature that present and respond to images of women, with critical attention to social and historical context, including application of feminist critical approaches. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 334. Modern Men -- Images. 3 Hours

Critical examination of significant literary works that portray males in traditional and non-traditional roles. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 335. African American Literature. 3 Hours

Study of African American writers and their oral and literary traditions. Emphasis on issues such as race, gender, and religion. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 336. Gender and Fiction. 3 Hours

Study of the relationship between gender and fiction as constructions that give shape and meaning to human experience and introduction to critical and literary methods for reading both. Consideration given to the impact of gender on the production and reception of fiction and to the ways fiction writers not only inscribe but also challenge conventions of gender and genre. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 337. Studies in Folklore. 3 Hours

Selected studies in American and/or world folklore. May be repeated as topics change. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 338. Images of Business. 3 Hours

Examination of the modern world of work, the image of the business 'professional', and the influence of organization on global society and values as these themes are revealed primarily in modern literature. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 339. American Indian Literature. 3 Hours

Study of American Indian writers and their oral and literary traditions. Emphasis on such issues as race, gender, and religion. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 340. US Prison Literature and Culture. 3 Hours

Introduction to some of the major voices that have emerged from the prison system from the rise of the modern prison in the late eighteenth century through the contemporary period. Emphasis will be placed on critical engagement with multiple literary texts and film, as well as discussions of contemporary social issues regarding prison culture. This course will also bring together different disciplinary perspectives in order to enhance students' understanding of the significant issues within prison literature and culture. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 341. Asian-American Literature. 3 Hours

Study of Asian American writers and their literary traditions. Emphasis on issues of race, gender, and class. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 342. Literature & Environment. 3 Hours

Examination of nature and environment in literature, focusing on literary representations of nature; nature writing; fiction and ecocriticism; the environment and the literary imagination. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 343. Literature of the Fifties. 3 Hours

Study of three identifiable cultures of the 1950s in America that were concerned with disillusionment, conformity, alienation, and artistic standards in literature: African-American, Beat, and Jewish writers. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 344. Literature of the Sixties. 3 Hours

Examination of the Sixties from the perspectives of cultural and literary studies. To this end, it focuses on major works of fiction, essays, New Journalism, and film. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 345. Colonial & Postcolonial Literature. 3 Hours

Examination of significant literary works that reveal the diversity of human cultures shaped by colonial and postcolonial contexts. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 346. Literature & Human Rights. 3 Hours

Study of works of literature that address human rights concerns, supplemented with study of foundational philosophical, theological, and political texts that address the meaning and origin of human rights. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 347. Young Adult Literature. 3 Hours

Critical study of literature written for young adults, including an analysis of the historical trends, debates, and issues in the field. Prerequisite(s): ENG 100 or 100B or 200H or ASI 110.

ENG 348. Modern Irish Literature. 3 Hours

Consideration principally of the Irish literary revival of the late nineteenth and early twentieth centuries with appropriate background material. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 349. Children's Literature and Culture. 3 Hours

Interdisciplinary study of children's literature and culture as diverse historical, social, and artistic expressions. Prerequisite(s): (ENG 100 or ENG 100B), ENG 200H, or ASI 110 or equivalent.

ENG 350. European Literature of Antiquity. 3 Hours

Study of significant works from the Old Testament and Greek, Roman, English, Irish, and/or Scandinavian writers. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 351. European Literature of Middle Ages. 3 Hours

Study of selected literary masterpieces of western civilization in the Middle Ages. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 353. Literature of the Renaissance. 3 Hours

Study of selected literary masterpieces from England and the Continent that illustrate the culture and ideas of the Renaissance. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 354. Literature of the Enlightenment. 3 Hours

Study of selected English and European literature from the Age of Reason. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 355. Literature of the Romantic Age. 3 Hours

Study of the Romantic Revolution as illustrated in representative writings of English and European authors. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 356. European Literature of the 19th Century. 3 Hours

Study of representative masterpieces from the literature of England and the Continent during the nineteenth century. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 357. European Literature of the Early 20th Century. 3 Hours

Study of significant English and European literature that illustrates the ideas and culture of the early modern period. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 358. Contemporary Literature of Europe. 3 Hours

Study of selected western European literature that illustrates the ideas and culture of the present age. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 359. Discourse Analysis. 3 Hours

Study of methods for critical analysis of discourse in contemporary social contexts. Emphasis on techniques for analyzing language as social practice. Prerequisite(s): ENG 200, ASI 120 or equivalent.

ENG 360. US Latina/Latino Literature. 3 Hours

Introduction to the diverse cultures and literary forms that define Latina/o literature, along with appropriate interpretive methods for thinking, researching, and writing about Latina/o literature. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 or equivalent.

ENG 362. Shakespeare. 3 Hours

Study of selected plays and poems of Shakespeare. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 362L. Shakespeare Performance Laboratory. 1 Hour

Study of Shakespearean performances through films, video tapes, and recordings. Three hours a week. Students in 362L must have already taken or be registered for ENG 362 or an equivalent Shakespeare course. Corequisite(s): ENG 362 or equivalent Shakespeare course.

ENG 363. Shakespeare's Worlds. 3 Hours

Concentrated analysis of the various worlds created in Shakespeare's plays and their interconnection with and depiction of the major elements of the historical world of early modern England. In the process of this integrated analysis, the Historical Study and Arts Study domains will be respected and taught as separate disciplines. This course is cross-listed with HST 308.

ENG 365. Studies in an Author. 3 Hours

The study and analysis of a significant author's work, literary achievement and influence. May be repeated as topics change. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 366. Health Literacy and Social Justice. 3 Hours

Study of health literacy from a public health and social justice perspective, examining the impact of limited health literacy on people's access to and understanding of written healthcare information. Students identify and practice using the key elements of effective written information for groups marginalized by differences such as race, socioeconomic class, culture, gender, sexual orientation, and dis/ability. Focus is on research, writing, and designing effective health information materials for diverse audiences. Study of the influences that have served to obstruct access to and understanding of health information and the ability to navigate healthcare systems and services. Junior or senior standing (This course requires prior experience with academic writing and knowledge of writing in the students' own discipline) Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 368. Introduction to Professional and Technical Writing. 3 Hours

Examination of the histories, theories, processes, functions, and tools of writing in field-specific workplace contexts such as corporate, legal, medical, scientific, technical, and non-profit settings. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 or equivalent.

ENG 369. Writing in Organizations. 3 Hours

Intensive study and production of rhetorically effective texts for a variety of professional purposes and audiences. Emphasis on strategically employing technology and writing skills to analyze, create, and edit print and digital texts such as web documents, grant proposals, reports, newsletters, instructions, and other forms of internal and external communication reflective of current workplace practices. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 or equivalent.

ENG 370. Report & Proposal Writing. 3 Hours

Analysis and practice in effective report and proposal writing. Emphasis on employing appropriate rhetorical and technological tools to analyze, produce, and edit proposals and reports for both business and non-profit audiences. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing.

ENG 371. Technical Communication. 3 Hours

Study and practice of effective written communication in technical professions. Emphasis on rhetorical and technological tools and editing skills needed to analyze and create technical documents with written and visual elements. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing.

ENG 372. Business and Professional Writing. 3 Hours

Analysis and practice in effective workplace communication. Emphasis on rhetorical elements to produce documents for both business and professional situations. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing.

ENG 373. Writing in the Health Professions. 3 Hours

Intensive practice in reading and writing for the healthcare professions. Practice in rhetorically composing written medical information in specific genres for various purposes and audiences (such as patient educational materials to patients and families and medical reports to health professionals). Critical reading, analysis, and reflection on issues, trends, and texts in healthcare. Topics include medical writing research strategies and writing the personal essay for graduate/professional school applications. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing.

ENG 374. Visual Rhetoric. 3 Hours

Exploration of theories of visual rhetoric and application of those theories to specific instances of visual rhetoric in culture and history. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 375. Writing for the Web. 3 Hours

Study of the theory and practice of writing rhetorically effective website content and producing websites. Focus on writing and editing effective web content that engages users. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 376. Topics in Writing. 1-6 Hours

Analysis of and practice in specific forms of writing. May be repeated as forms change. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 377. Writing in Social Contexts. 3 Hours

Examination of the role writing plays in establishing, maintaining, and regulating social relationships in a specified social context. Involves rhetorical analysis of discourse conventions common to those contexts, original research of writing practices in those contexts, and practice writing within those contexts with attention to audience, genre, and style. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 378. Professional & Technical Writing. 3 Hours

Professional and Technical Writing.

ENG 379. Rhetoric of Science. 3 Hours

Introduction to the role rhetoric and language play in science writing. Focus on the rhetorical analysis of public policy controversies involving science and technology and the role rhetoric plays in the public's understanding of these issues. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 380. Studies in Literature. 1-6 Hours

Study of special topics or themes in literature. May be repeated as topics change. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 382. Mozart's Operas. 3 Hours

An interdisciplinary survey of Mozart's operas - German and Italian, serious and comic. Class discussions will be supplemented by extensive listening and/or viewing of recorded performances and, when possible, attendance at live performances. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 383. Tragic Dilemma. 3 Hours

Examination of tragedy from ancient times to modern times, with emphasis on both the form(s) of tragedy and the tragic vision of life. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 384. Christianity & Modern Poetry. 3 Hours

Study of selected poets from the modern period whose work draws from the major literary, intellectual, cultural, and theological traditions of Christianity. Prerequisite(s): Examination of tragedy from ancient times to modern times, with emphasis on both the form(s) of tragedy and the tragic vision of life. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 385. Religion & Literature. 3 Hours

Interdisciplinary study of literature and religion, seeking the sacred in the secular, discussing the doctrines of humans and of God in major writings, especially those of current collegiate interest. Prerequisite(s): ENG 100 or ENG 100B or ENG 200H or ASI 110 equivalent.

ENG 386. Genre in Writing. 3 Hours

Survey of various approaches to the study of genre, with emphasis on analysis and production of texts within academic and/or professional genres. Prerequisite(s): ENG 220 or permission of department chairperson.

ENG 387. Literature & Ethics. 3 Hours

Prerequisite(s): ENG 220 or permission of department chairperson.

ENG 388. Introduction to Literary Theory. 3 Hours

Introduction to Literary Theory, its historical development, rhetorical and argumentative strategies, and practice. Prerequisite(s): ENG 220 or permission of department chairperson.

ENG 389. Introduction to Poetics and Narrative Theory. 3 Hours

Examination of a variety of poetic and narrative theories and their application to the study of creative writing. Prerequisite(s): ENG 220 or permission of department chairperson.

ENG 390. Introduction to Rhetorical Theory. 3 Hours

Examination of a variety of rhetorical theories from classical, modern, and contemporary times. Students explore the limits and possibilities of these theories for explaining persuasion, identification, and affect across texts aimed at diverse audiences. Prerequisite(s): ENG 220 or permission of department chairperson.

ENG 391. Introduction to Composition Theory. 3 Hours

Study of the principal current theories of composition, with application to the teaching and evaluating of writing. Prerequisite(s): ENG 220 or permission of department chairperson.

ENG 393. Approaches to Literature for Middle and High School. 3 Hours

The theory and practice of introducing literature and language arts to a diverse middle and high school student population. Strategies for planning and implementing textual interpretation techniques appropriate to secondary education settings. The investigation and use of literary analysis, critical theory, and approaches to writing about multiple genres of literature. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 395. Junior Honors Tutorial. 3 Hours

Independent directed study on special topics for selected students. May be repeated as topic or instructor changes. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior standing; permission of instructor.

ENG 405. Chaucer. 3 Hours

Study of Chaucer's life, world, language, and literary achievement, concentrating on *The Canterbury Tales* (in Middle English). Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 407. Medieval English Literature. 3 Hours

Study of the dominant types in the literature of England from the beginning to 1500. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 410. Early Renaissance Literature. 3 Hours

Survey of the literature of the sixteenth century from Thomas More to Sidney and Spenser. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 414. Later Renaissance Literature. 3 Hours

Survey of the literature of the early seventeenth century from Bacon, Jonson, and Donne to Marvell, exclusive of Milton. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 431. Milton. 3 Hours

Study of the major and minor poems and selected prose of Milton. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 433. Studies in Neo-Classical Literature. 3 Hours

Study of English literature from Dryden to Johnson. May be repeated as topics change. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 438. English Romanticism. 3 Hours

Study of the major poets and critics of the Romantic Age. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 444. Studies in 19th Century English Literature. 3 Hours

Study of English literature in the nineteenth century. May be repeated as topics change. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 448. 20th Century British Literature. 3 Hours

Study of significant developments in modern British literature. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 451. American Romanticism. 3 Hours

Study of significant developments in American literature of the mid-19th century. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 453. American Realism & Naturalism. 3 Hours

Study of representative writers from the post-Civil War period in American literature. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 455. 20th Century American Literature. 3 Hours

Study of significant developments in American literature of the twentieth century. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 460. Advanced Poetry Workshop. 3 Hours

Intensive practice in writing of poetry and production of a chapbook. Prerequisite(s): ENG 308.

ENG 462. Advanced Fiction Workshop. 3 Hours

Intensive practice in writing of fiction and production of a novella or short story cycle. Prerequisite(s): ENG 310.

ENG 466. TESOL Methods for Teaching English Language Learners. 3 Hours

Introduction to key concepts in Teaching English to Speakers of Other Languages.. Theoretical perspectives on second language (ESL) and literacy instruction will be interwoven with practical techniques for classroom instruction. Students will investigate approaches to teaching the four skills of English (reading, writing, listening, speaking) across varying contexts and proficiency levels. Prerequisite(s): ENG 200 or ENG 200H or ASI 120; and junior or senior standing or permission of department chairperson.

ENG 468. Introduction to Linguistics. 3 Hours

Introduction to the basic concepts and procedures of general linguistics, including language description, history, variation, theory, and acquisition. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing or permission of department chairperson.

ENG 470. History of English. 3 Hours

Study of stages in the development of the English language and of influences shaping its development from the beginning to the present. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing or permission of department chairperson.

ENG 472. The Structure of English. 3 Hours

Study of the grammatical structure of modern English from traditional and modern linguistic points of view. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing or permission of department chairperson.

ENG 474. Argument and Style. 3 Hours

Intensive study of argumentative writing with emphasis on different methods of argumentation and appropriate stylistic choices for each. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 475. Usability in Technical Writing. 3 Hours

Examination of theory and methods of usability testing in technical writing. Students survey approaches to usability testing in print and online technical writing. Students plan, conduct, and analyze usability tests for selected print and digital texts. Students analyze and design test plans, conduct testing sessions, write reports, and present recommendations. Prerequisite(s): ENG 368.

ENG 476. Composition Theory. 3 Hours

Study of the principal current theories of composition, with application to the teaching and evaluating of writing. Prerequisite(s): ENG 316 or permission of instructor.

ENG 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

ENG 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved ENG 477; approval of University Honors Program.

ENG 480. Independent Study. 1-6 Hours

Individual investigations of special topics under faculty direction. May be repeated under special circumstances. Prerequisite(s): At least fifteen semester hours of English; permission of department chairperson.

ENG 481. Topics in English Studies. 1-6 Hours

Systematic study of a specialized topic in English Studies. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 482. Modern Poetry. 3 Hours

Concentrated, advanced study in the development of modern poetry, both English and American. Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent.

ENG 485. Internship in Writing. 1-6 Hours

Application of writing skills to specific projects of an approved organization. Practical and professional experience offered to juniors and seniors (particularly English majors and minors) as a supplement to the writing curriculum. Option 2 grading only. Prerequisite(s): ENG 370, ENG 371, ENG 372; junior or senior standing; 2.5 cumulative GPA and at least 3.0 GPA in English courses; permission of Internship Coordinator.

ENG 488. Literary Theory. 3 Hours

Comparative critical reading of classical and modern theoretical texts and analysis of critical methodology. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 489. Rhetorical Criticism. 3 Hours

Study and practice of classical and contemporary rhetorical theories and techniques. Focus on writing rhetorical analyses of non-literary texts, including political discourse, advertising, scholarly essays, and visual images. Prerequisite(s): ENG 272 or ENG 316 or permission of instructor; junior or senior standing.

ENG 490. Research Seminar-Literature. 3 Hours

Concentrated study of a topic designed to integrate selected aspects of literary history, critical approaches, and research skills developed by English majors in previous required courses. May be repeated as topics change. Prerequisite(s): (ENG 220 or 300) and (ENG 301 or 302 or 303 or 304 or 305) and (ENG 388 or 476 or 488 or 489) and (junior or senior standing or permission of department chairperson).

ENG 495. Senior Honors Tutorial. 3 Hours

Independent directed study on special topics for selected students. May be repeated as topic or instructor changes. Prerequisite(s): Permission of department chairperson.

ENG 496. Research Seminar-Teaching. 3 Hours

Examination of methods for teacher research in the field of English/ Language Arts. Students will practice various methods and create research proposals for their capstone course project. Prerequisite(s): (ENG 220 or 300) and (ENG 301 or 302 or 303 or 304 or 305) and (ENG 391 or 476 or 488 or 489) and (ENG 393 or 466) and (junior or senior standing or permission of department chairperson).

ENG 497. Research Seminar-Writing. 3 Hours

Advanced study of one or more theories or research methodologies from the fields of creative writing, rhetoric and composition, or professional and technical writing and their application to an appropriate research question in the field. May be repeated as topic changes. Prerequisite(s): (ENG 220 or ENG 300) and (ENG 389 or ENG 390 or ENG 391 or ENG 476 or ENG 489) and (junior or senior standing or permission of department chairperson).

ENG 498. Capstone I-Project. 3 Hours

Part one of the capstone for English majors. Independent project (research or other form of scholarship) under the direction of an individual faculty mentor. English majors only. Prerequisite(s): ENG 490 or ENG 496 or ENG 497.

ENG 499. Capstone II-Seminar. 0 Hours

Part two of the English major capstone. Weekly seminar integrating the work of the capstone project (ENG 498) with students' past experiences and future goals. Students prepare their capstone projects for public presentation, present those projects in a public forum, and reflect upon the process and product of their work. Prerequisite(s): ENG 498.

Family Development

The interdisciplinary minor in family development increases understanding of the meaning and dynamics of marriage and parenthood in contemporary society. It examines the family as a major institution affecting society and surveys the individual, social, and economic problems found within families. This background contributes to preparation for careers in areas such as social work, psychology, education, communication, human ecology, and religious work.

Students minoring in family development must complete 16 semester hours, including ASI 448, SOC 331 and 12 semester hours from approved courses. The total semester hours for the minor must come from three different academic disciplines and may double count to majors and other minors.

Students desiring to minor in family development should notify their advisors, their deans, and the coordinator of family development.

Family Development Coordinator

Brenda Donnelly (Fitz Center for Leadership in Community)

Minor in Family Development (FDV)

Family Development

ASI 448	Seminar in Family Development	1
SOC 331	Marriages & Families	3
Select four courses from three different disciplines:		12
ANT 320	Anthropology of Childhoods	
CMM 410	Family Communication	
CMM 447	Children and Mass Media	
CMS 415	Gender and Communication	
HST 351	American Gender & Women's History	
HST 352	Family History	
HST 353	History of Women in European Societies	
HST 354	History of Women & Gender in the Middle East	
PHL 318	Family Ethics	
PSY 251	Human Growth & Development	
PSY 351	Child Psychology	
PSY 353	The Psychology of Adult Development & Aging	

PSY 355	Developmental Psychopathology
PSY 443	Women, Gender, and Psychology
PSY 457	Television & Its Effects on Children
PSY 462	Human Sexuality
REL 344	Christian Marriage
REL 362	Christian Family Values & Television
SOC 322	Sex Roles & Society
SOC 323	Juvenile Justice
SOC 330	Perspectives on Aging
SOC 333	Sociology of Sexualities
SOC 355	Families & the Economy
SWK 325	Child Abuse
SWK 327	Parenting: Social Welfare Role
SWK 330	Perspectives on Aging
SWK 331	Death, Dying and Suicide
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Total Hours	16

Film Studies

The interdisciplinary minor in film studies (FLM) provides students an opportunity to explore one of the most popular and influential media from the twentieth century to the present. Students study the history, theory, and aesthetics of film and consider film from literary, philosophic, religious, economic, and creative perspectives. The minor complements many of the existing majors in the arts and sciences and enhances the academic preparation of students who are considering graduate school and/or careers in film criticism, screenwriting, or film production.

Students minoring in film studies must complete 13 semester hours including four approved three-credit film courses in various disciplines and a one-credit required capstone course, ASI 350.

Students desiring to minor in film studies should notify their respective deans and the coordinator of film studies.

Film Studies Committee

James Farrelly (English), Coordinator
Fouke (Philosophy), Griffin (Communication, Kimbrough (English), McCombe (English), Zukowski (Religious Studies)

Minor in Film Studies (FLM)

Film Studies

ASI 350	Interdisciplinary Film Study ¹	1
Select four courses from: ²		12
CMM 345	Classic American Film	
ENG 331	Studies in Film	
ENG 332	Studies in Literature & Film	
MUS 327	Music in Film	
PHL 324	Philosophy & Film	
REL 372	Religion & Film	
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Total Hours		13

¹ Capstone course taken after all elective courses have been completed.

² Or other courses with permission of the committee.

General Studies

- Bachelor of General Studies (p. 177)

The Bachelor of General Studies program is designed for those students who desire to pursue a non-traditional degree program at the University outside of any departmental major. This degree program permits great latitude in utilizing the academic resources of the University for planning and acquiring an education to meet individual needs. Students may plan their programs to the best advantage of their particular educational objectives. Students build their programs on the foundation of University's Common Academic Program requirements.

Bachelor of General Studies (GEN) minimum 120 hours

Admission requirements for the Bachelor of General Studies are the same as those for any other degree offered in the College of Arts and Sciences.

Candidacy for the Bachelor of General Studies may be declared in the first year but not later than the commencement of a student's last 30 semester hours of study. An application for acceptance into the degree program must be completed and approved by an Assistant Dean in the College of Arts and Sciences. Any students in good academic standing may request transfer into this program.

The General Studies student is required to plan an academic program to satisfy the requirements for graduation in consultation with an Assistant Dean. The General Studies student must complete a minimum of the last 30 semester hours of study under the supervision of an Assistant Dean who will serve as the student's advisor. The usual policy of prerequisites remains in effect in this program:

1. College of Arts and Sciences' Competencies and the University's Common Academic Program requirements.
2. Three semester hours of mathematics selected from courses offered by the Mathematics department (excluding MTH 205).
3. Study of the natural sciences by completing seven semester hours in approved natural science courses (biology, chemistry, geology, physics), including one course with accompanying laboratory.
4. A minimum of 54 semester hours of courses at the 300-400 level with a grade point average of 2.0 or better.
5. Not more than 30 semester hours of work from any one academic discipline.
6. Credits earned in completion of the Bachelor of General Studies may not be applied at a later time to the credits for a second degree from the College of Arts and Sciences.
7. Successful completion of GNS 480, Senior Capstone course.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		
HST 103	West and the World	12
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3

CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
³ Completed with ENG 200H or ASI 120.
⁴ Must include two different disciplines and accompanying lab.

Major Requirements

General Studies Area at the 300/400 level ^{1,2}	54
GNS 480 Senior Capstone	0

Breadth

ASI 150 Introduction to the University Experience	1
Total Hours to total at least	120

¹ Includes 300/400 CAP courses.
² May not include more than thirty semester hours from any one academic discipline.

First Year	Hours Spring	Hours
Fall		
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
CMM 100 (CAP Communication)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 CAP Mathematics	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 CAP Natural Science w/ lab	4
CAP Arts	3 General Elective	3
CAP Natural Science	3	
	16	16

Second Year	Hours Spring	Hours
Fall		
ENG 200 (CAP Writing Seminar)	3 CAP Faith Traditions (GS Major)	3
SSC 200 (CAP Social Science)	3 General Studies Major	3
General Studies Major	3 General Studies Major	3
General Studies Major	3 General Elective	3
General Elective	3 General Elective	3
	15	15

Third Year	Hours Spring	Hours
Fall		
CAP Advanced Philosophy/Religious Studies (GS Major)	3 CAP Advanced Historical Studies (GS Major)	3
CAP Inquiry	3 CAP Advanced Philosophy/Religious Studies (GS Major)	3
CAP Integrative (GS Major)	3 CAP Practical Ethical Action (GS Major)	3
General Studies Major	3 General Studies Major	3
General Elective	3 General Elective	3
	15	15

Fourth Year	Hours Spring	Hours
Fall		
General Studies Major	3 GNS 480	0
General Studies Major	3 CAP Diversity and Social Justice	3
General Studies Major	3 General Studies Major	3
General Elective	3 General Studies Major	3
General Elective	2 General Studies Major	3
	General Elective	2
	14	14

Total credit hours: 120

Geology

Majors:

- Bachelor of Science, Environmental Geology (p. 179)
- Bachelor of Science, Geology (p. 180)

Minor:

- Geology (p. 181)

Geology is the study of the Earth, both past and present. It incorporates many aspects of our complex planet including its composition, structure, environment, internal and surficial processes, and the development of life, continents, and oceans through time. Geology plays a critical role in

interpreting the Earth's long history of physical and biological changes, finding and managing natural resources, and understanding natural hazards and future environmental change.

The geology department offers two programs leading to Bachelor of Science degrees in geology and environmental geology. The geology (GEO) major provides basic courses in the geological sciences as well as a range of advanced level classes that allow students to develop courses of study that complement particular interests within the field such as energy and mineral resources, plate tectonics or paleontology.

The environmental geology (EVG) program is broad in scope, providing a broad foundation in the fundamentals of earth and environmental science as well as an interdisciplinary curriculum that includes geology, biology, chemistry, and other allied science courses. The EVG curriculum stresses the interdisciplinary nature of modern environmental issues such as climate change and the development of alternative energy resources.

The geology department also offers a Geographic Information Systems (GIS) Certificate Program. GIS is used in a wide range of disciplines, and the certificate program is a great option for professionals, graduate students, and undergraduate students who are interested in becoming proficient at managing, analyzing, and displaying all forms of geographically referenced information.

The geology department aims to prepare students for both careers in the geological sciences, and for further academic studies. Hence, graduates of the department are also highly competitive for entry to graduate programs. Geology department majors pursue careers in a wide range of settings including:

- State and Federal Geological Agencies
- Geological Consulting Companies
- Natural Resource Exploration, Development and Management
- Museums
- Research Laboratories
- Education

Environmental geologists address critical needs of our society including global climate change, groundwater protection, energy resources, and the identification and assessment of natural hazards.

A minor in geology consists of 12 semester hours.

Faculty

Daniel Goldman, Chairperson

Professor Emeritus: Ritter

Professors: Goldman, Pair, Sandy

Associate Professors: Haritashya, Koziol, A. McGrew, Wu

Lecturer: Bedaso

Lab Coordinator: Klosterman

Bachelor of Science, Environmental Geology (EVG) minimum 120 hours

The following program, leading to the Bachelor of Science with a major in environmental geology, is designed to present students with the basic courses in the geological sciences as well as provide specific environmental geology courses. The program also requires additional related science courses.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

(Satisfies CAP Mathematics and CAP Natural Science)		
BIO 151	Concepts of Biology I: Cellular & Molecular Biology	3
BIO 152	Concepts of Biology II: Evolution & Ecology	3
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
MTH 168	Analytic Geometry & Calculus I ¹	4
MTH 169	Analytic Geometry & Calculus II ¹	4
PHY 206	General Physics I - Mechanics ²	3
PHY 207	General Physics II - Electricity & Magnetism ²	3

Major Requirements 61

Year 1		
GEO 115 & 115L	Physical Geology and Physical Geology Laboratory	4
GEO 116 & 116L	Geological History of the Earth and Geological History of the Earth Laboratory	4
Year 2		
GEO 201 & 201L	Mineralogy and Mineralogy Laboratory	4

GEO 208	Environmental Geology	3
Year 3		
GEO 301 & 301L	Structural Geology and Structural Geology Laboratory	4
GEO 307 & 307L	Geomorphology and Geomorphology Laboratory	4
GEO 310 & 310L	Stratigraphy and Sedimentology and Stratigraphy and Sedimentology Laboratory	4
Year 4		
GEO 308	Problems & Decisions in Environmental Geology	3
GEO 309 & 309L	Surface & Groundwater Hydrology and Surface and Groundwater Hydrology Laboratory	4
GEO 479L	Environmental Instrumentation Laboratory	2
GEO 498	Geological Research and Thesis (Satisfies CAP Major Capstone)	4
Select GEO electives from:		4
GEO 302 & 302L	Glacial Geology and Glacial Geology Laboratory	
GEO 303	Field Geology	
GEO 401 & 401L	Paleontology and Paleontology Laboratory	
GEO 403 & 403L	Advanced Stratigraphy and Sedimentology Laboratory	
GEO 404	Problems in Geology	
GEO 411 & 411L	Petrology and Petrology Laboratory	
GEO 412 & 412L	Introductory Geochemistry and Introductory Geochemistry Laboratory	
GEO 450	Applied Geographic Information Systems	
Select six science electives from:		17
BIO 310 & 310L	Ecology and Ecology Laboratory	
BIO 350 & 350L	Applied Microbiology and Applied Microbiology Laboratory	
BIO 452 & 452L	Biology of Rivers & Lakes and Biology of Rivers & Lakes Laboratory	
BIO 459 & 459L	Environmental Ecology and Environmental Ecology Laboratory	
CEE 312 & 312L	Geotechnical Engineering and Geotechnical Engineering Laboratory	
CEE 390	Environmental Pollution Control	
CEE 434 & 434L	Water & Wastewater Engineering and Water & Wastewater Engineering Laboratory	
CHM 201 & 201L	Quantitative Analysis and Quantitative Analysis Laboratory	
CHM 302	Physical Chemistry	
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	
CHM 341 & 341L	Environmental Chemistry and Environmental Chemistry Laboratory	
CPS 132	Computer Programming for Engineering & Science	
CPS 144	Introduction to Computer Programming	
MTH 218	Analytic Geometry & Calculus III	
MTH 219	Applied Differential Equations	

MTH 367	Statistical Methods I
MTH 368	Statistical Methods II

Breadth

ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

¹ May substitute MTH 148-MTH 149 with permission of department chairperson.

² May substitute PHY 201-PHY 202 with permission of department chairperson.

Bachelor of Science, Geology (GEO) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103	West and the World
REL 103	Introduction to Religious and Theological Studies
PHL 103	Intro To Philosophy
ENG 100	Writing Seminar I ²
Second-Year Writing Seminar ³	0-3
ENG 200	Writing Seminar II
Oral Communication	3
CMM 100	Principles of Oral Communication
Mathematics	3
Social Science	3
SSC 200	Social Science Integrated
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

(Satisfies CAP Mathematics and CAP Natural Sciences)

CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
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CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
MTH 168	Analytic Geometry & Calculus I ¹	4
MTH 169	Analytic Geometry & Calculus II ¹	4
PHY 206	General Physics I - Mechanics ²	3
PHY 207	General Physics II - Electricity & Magnetism ²	3

Major Requirements 54

Year 1

GEO 115 & 115L	Physical Geology and Physical Geology Laboratory	4
GEO 116 & 116L	Geological History of the Earth and Geological History of the Earth Laboratory	4

Year 2

GEO 201 & 201L	Mineralogy and Mineralogy Laboratory	4
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Year 3

GEO 301 & 301L	Structural Geology and Structural Geology Laboratory	4
GEO 307 & 307L	Geomorphology and Geomorphology Laboratory	4

Year 4

GEO 303	Field Geology	6
GEO 310 & 310L	Stratigraphy and Sedimentology and Stratigraphy and Sedimentology Laboratory	4
GEO 401 & 401L	Paleontology and Paleontology Laboratory	4
GEO 403 & 403L	Advanced Stratigraphy and Sedimentology Laboratory	4
GEO 498	Geological Research and Thesis (Satisfies CAP Major Capstone)	4

Select GEO electives from: 4

GEO 302 & 302L	Glacial Geology and Glacial Geology Laboratory	
GEO 308 & 308L	Problems & Decisions in Environmental Geology and Problems & Decisions in Environmental Geology Laboratory	
GEO 309 & 309L	Surface & Groundwater Hydrology and Surface and Groundwater Hydrology Laboratory	
GEO 404	Problems in Geology	
GEO 411 & 411L	Petrology and Petrology Laboratory	
GEO 412 & 412L	Introductory Geochemistry and Introductory Geochemistry Laboratory	
GEO 450	Applied Geographic Information Systems	
GEO 477	Honors Thesis Project	

Science electives and laboratories where applicable from: 8

BIO, CHM, CPS, GEO, MTH, PHY, Engineering ³

Breadth

ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

¹ May substitute MTH 148-MTH 149 with permission of department chairperson.

² May substitute PHY 201-PHY 202 with permission of department chairperson.

³ With permission of department chairperson.

Minor in Geology (GEO)

Geology

Select four GEO courses (300/400 level) ¹	12
Total Hours	12

¹ Appropriate prerequisites must be completed.

- Bachelor of Science, Environmental Geology (p. 181)
- Bachelor of Science, Geology (p. 180)

Environmental Geology

First Year

Fall	Hours Spring	Hours
ASI 150	1 GEO 116 & 116L	4
GEO 115 & 115L (CAP Natural Science w/lab)	4 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)	4 CHM 124 & 124L	4
CHM 123 & 123L	4 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
	16	18

Second Year

Fall	Hours Spring	Hours
GEO 201 & 201L	4 GEO 208	3
BIO 151 (CAP Natural Science)	3 Geology elective w/lab	4
PHY 206	3 BIO 152	3
ENG 200 (CAP Writing Seminar)	3 PHY 207	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3
	16	16

Third Year

Fall	Hours Spring	Hours
GEO 301 & 301L	4 GEO 310 & 310L	4
GEO 307 & 307L	4 Science Elective	3
Science Elective	3 CAP Arts	3
SSC 200 (CAP Social Science)	3 CAP Advanced Historical Studies	3

CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3 CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3
17		16
Fourth Year		
Fall	Hours Spring	Hours
GEO 498 (Satisfies CAP Major Capstone)	4 GEO 479L	2
GEO 308	3 Science Elective	4
GEO 309 & 309L	4 Science Elective	3
Science elective w/lab	4 CAP Inquiry	3
CAP Integrative	3 CAP Diversity and Social Justice	3
	Social Science - elective	3
18		18

Total credit hours: 135

Geology

First Year			
Fall	HourSpring	HourSummer	Hours
ASI 150	1 GEO 116 & 116L	4 GEO 303	6
GEO 115 & 115L (CAP Natural Science w/lab)	4 Science elective w/lab	4	
MTH 168 (Satisfies CAP Mathematics)	4 MTH 169	4	
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3	
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3		
15		15	6
Second Year			
Fall	HourSpring	Hours	
GEO 201 & 201L	4 CHM 124 & 124L	4	
CHM 123 & 123L	4 PHY 207	3	
PHY 206 (CAP Natural Science)	3 GEO elective w/lab	4	
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3	
Social Science - elective	3 ENG 200 (CAP Writing Seminar)	3	
17		17	
Third Year			
Fall	HourSpring	Hours	
GEO 301 & 301L	4 GEO 307 & 307L	4	
Science elective	4 SSC 200 (CAP Social Science)	3	
CAP Arts	3 CAP Inquiry	3	
CAP Faith Traditions	3 CAP Advanced Philosophy/Religious Studies	3	

CAP Adv. Philosophy/Practical Ethical Action	3 CAP Advanced Historical Studies	3
17		16
Fourth Year		
Fall	HourSpring	Hours
GEO 498 (Satisfies CAP Major Capstone)	4 GEO 310 & 310L	4
CAP Integrative	3 GEO 401 & 401L	4
CAP Diversity and Social Justice	3 GEO 403 & 403L	4
General elective (optional)	3 General Elective	3
13		15

Total credit hours: 131

Courses

GEO 103. Principles of Geography. 3 Hours

The study of spatial processes that shape the Earth's physical and cultural environment through a survey of major branches of physical and human geographic inquiry.

GEO 104. Biology-Geology Field Course. 3 Hours

Fundamental earth science topics with emphasis on direct field experience. One week on campus, three weeks in the Rocky Mountains near Denver, Colorado, and one week of travel. For all non-geology and non-biology majors. Corequisite(s): BIO 104; (BIO 104L or GEO 104L).

GEO 104L. Biology-Geology Field Laboratory. 1 Hour

Course to accompany GEO 104.

GEO 109. Earth, Environment, and Society. 3 Hours

This course examines the complex relationship between natural geologic processes and their effects on human society. The course will examine fundamental geologic processes and associated hazards (such as earthquakes, tsunamis, volcanic eruptions, flooding) while also assessing human impacts such as pollution, energy industry and land-use planning. This course provides an opportunity to discuss, from a geologic perspective, the ramifications of and potential solutions to problems associated with utilization of Earth's resources. Laboratory optional but not required. No prerequisite.

GEO 109L. Earth, Environment, and Society Lab. 1 Hour

Laboratory exercises in Earth and Environmental Science to accompany GEO 109 Lecture. Two hours each week.

GEO 115. Physical Geology. 3 Hours

Introductory course in geologic principles and processes. Examines Earth's major systems including the solid Earth, atmosphere, hydrosphere, and cryosphere. Laboratory optional for non-majors.

GEO 115L. Physical Geology Laboratory. 1 Hour

Physical Geology Lab - laboratory exercises in Physical Geology to accompany GEO 115 lecture.

GEO 116. Geological History of the Earth. 3 Hours

Study of earth history over the last 4.6 billion years - from its origins to the present day. Includes earth origins, the development of the earth during the Precambrian including evolution of the atmosphere, and the appearance of prokaryotic and eukaryotic life. Major biological development and environmental, tectonic, and climatic changes during the last half-billion years (the Phanerozoic) will be examined, including the Pleistocene "Ice Age" and Anthropocene conditions. Prerequisite(s): (GEO 109 or GEO 115); permission of instructor.

GEO 116L. Geological History of the Earth Laboratory. 1 Hour

Course to accompany GEO 116. Two hours each week.

GEO 198. Geology, Landscape & Environment of the Miami Valley. 3 Hours

Field-based course examining the geologic history of the Miami Valley and Dayton area; processes leading to the modern landscape; the impact of human activity will be assessed. Prerequisite(s): GEO 109 or GEO 115 or permission of instructor.

GEO 201. Mineralogy. 3 Hours

Introduction to crystallography, crystal chemistry and crystal structure. Study of the major groups of rock-forming minerals, their association and occurrence with emphasis on identification by physical properties and optical techniques. Prerequisite(s): (GEO 109 or GEO 115) or permission of instructor.

GEO 201L. Mineralogy Laboratory. 1 Hour

Course to accompany GEO 201. Three hours per week.

GEO 202. The Inner Earth. 4 Hours

Exploration of the Earth's internal processes of magmatism, metamorphism and deformation as part of its larger-scale processes of convection, conduction, and plate tectonics. Prerequisite(s): GEO 201 and GEO 201L.

GEO 204. Geology for Teachers. 4 Hours

Introduction for preservice teachers to the Earth system and the processes that operate in the atmosphere, hydrosphere, biosphere, and solid Earth. Emphasis is on understanding how interactions among these fundamental Earth systems maintain our livable planet. Students will explore the Earth system through best practices in teaching and inquiry, and through field trips. For ECE, EMS, and EMM majors only. Students completing this course may not take SCI 210. Prerequisite(s): EDT 110; SCI 190.

GEO 208. Environmental Geology. 3 Hours

Environmental Geology is the study of the relationship of geologic factors to natural hazards and the problems of water supply, pollution, erosion, land use, and earth resource utilization. Laboratory optional.

GEO 208L. Environmental Geology Laboratory. 1 Hour

Laboratory course to accompany GEO 208. This lab is designed to provide practical exercises that will enhance a student's understanding of how human beings interact with the geological environment. Lab activities will take an experiential, inquiry-based approach to topics relevant in past, present, and future societies. One two-hour laboratory per week concurrently run with the GEO 208 lecture course. Prerequisite(s): GEO 208 (or co-requisite).

GEO 218. Geological Site Investigation for Engineers. 3 Hours

Exploration of the principles of geological site investigation applied to land-use planning, geohazard risk analysis, and diverse engineering applications.

GEO 234. Energy Resources. 3 Hours

The chemical and geological aspects of formation, production, and benefits/costs (including environmental impacts) of energy derived from fossil fuels (coal and hydrocarbons), biofuels (e.g., ethanol production), radioactive materials (nuclear power), and renewable sources (e.g., geothermal, hydro, wind, and solar power).

GEO 301. Structural Geology. 3 Hours

The origin and development of structural features of the earth's crust; folding, faulting, volcanism, mountain building, and metamorphism. Prerequisite(s): GEO 115, GEO 116, GEO 201.

GEO 301L. Structural Geology Laboratory. 1 Hour

Course to accompany GEO 301. Two hours each week.

GEO 302. Glacial Geology. 3 Hours

The origin of mountain and continental glaciers; their depositional features and erosive activity; history of glaciation in geologic past with special emphasis on North American Quaternary ice advances. Prerequisite(s): GEO 115, GEO 116.

GEO 302L. Glacial Geology Laboratory. 1 Hour

Course to accompany GEO 302. Two hours each week.

GEO 303. Field Geology. 6 Hours

Field studies in Geology and Environmental Geology. This course focuses on geologic field techniques, and rock outcrop description and interpretation. Current field sites include Colorado and New Zealand. Prerequisite(s): GEO 115 or Geo 109 or Geo 208 or SCI 210, and GEO 116.

GEO 307. Geomorphology. 3 Hours

Detailed study of landforms and the erosional processes that develop them. Prerequisite(s): GEO 115, GEO 116.

GEO 307L. Geomorphology Laboratory. 1 Hour

Course to accompany GEO 307. Two hours each week.

GEO 308. Problems & Decisions in Environmental Geology. 3 Hours

An in-depth examination of selected environmental problems and the way in which scientific information guides practice and policy. Topics will range from investigations of natural hazards to considerations of land use and water resources. Prerequisite(s): (GEO 109 or GEO 115) or permission of instructor.

GEO 308L. Problems & Decisions in Environmental Geology Laboratory. 1 Hour

Course to accompany GEO 308. Two hours each week and periodic field work.

GEO 309. Surface & Groundwater Hydrology. 3 Hours

This course is designed to provide a science or engineering student with the fundamental concepts and principles central to the study of water as a resource. This will include an examination of all components of the hydrologic cycle including surface-water hydrology and management, groundwater hydrogeology, and water resource management. Prerequisite(s): (GEO 109 or GEO 218) or permission of instructor.

GEO 309L. Surface and Groundwater Hydrology Laboratory. 1 Hour

Laboratory exercises to accompany GEO 309. Three hours per week.

GEO 310. Stratigraphy and Sedimentology. 3 Hours

Investigation and interpretation of sedimentary rocks, sedimentary environments, and the stratigraphic record. Prerequisite(s): GEO 116.

GEO 310L. Stratigraphy and Sedimentology Laboratory. 1 Hour

Laboratory exercises to accompany GEO 310. Two hours each week. Corequisite(s): GEO 310.

GEO 401. Paleontology. 3 Hours

The study of ancient life. The morphology, ecology, evolution, and stratigraphic distributions of selected invertebrates, vertebrates, and plants.

GEO 401L. Paleontology Laboratory. 1 Hour

Course to accompany GEO 401. Two hours each week.

GEO 403. Sedimentology. 3 Hours

Detailed study of sediments: their sources, environments of deposition, and methods of consolidation. Emphasis on the interpretation of ancient sediments. Prerequisite(s): GEO 201.

GEO 403L. Sedimentology Laboratory. 1 Hour

Course to accompany GEO 403. Two hours each week.

GEO 404. Problems in Geology. 1-4 Hours

Consideration of special problems involving advanced work in the laboratory and library; arranged to meet the needs of individual students.

GEO 411. Petrology. 3 Hours

Study of the formation of sedimentary, igneous, and metamorphic rocks. Prerequisite(s): GEO 201.

GEO 411L. Petrology Laboratory. 1 Hour

Course to accompany GEO 411. Two hours each week. Prerequisite(s): GEO 201.

GEO 412. Introductory Geochemistry. 3 Hours

Study of elementary thermodynamics, aqueous geochemistry, and principles governing the distribution of trace elements, radioisotopes and stable isotopes in igneous, metamorphic and sedimentary rocks. Emphasis on applications and solution of geological problems. Prerequisite(s): GEO 201 or permission of instructor.

GEO 412L. Introductory Geochemistry Laboratory. 1 Hour

Course to accompany GEO 412. Three hours each week.

GEO 450. Applied Geographic Information Systems. 4 Hours

Introduction of concepts and implementation of analysis in geographic information systems (GIS).

GEO 455. Environmental Remote Sensing. 4 Hours

Introduction to principles and concepts of remote sensing, a sophisticated technology of earth observation that provides fundamental data for global environmental investigation. Prerequisite(s): GEO 208 or permission of instructor.

GEO 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

GEO 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

GEO 479L. Environmental Instrumentation Laboratory. 2 Hours

The understanding and use of field and laboratory based equipment to study current environmental issues. Emphasis on team-centered approaches to investigating environmental problems. Prerequisite(s): (BIO 151, BIO 152) or (GEO 115, GEO 116) or permission of instructor.

GEO 480. Senior Capstone Project & Presentation. 3 Hours

Project and presentation in the scholarship, activity and/or practice related to the major. Students will present their work in a forum appropriate to the major.

GEO 485. Geographic Information Systems Applications in Water Resources Planning & Management. 4 Hours

An introduction to GIS applications in water resource management. Following an introduction to GIS basics, this course focuses on GIS techniques in surface water modeling and floodplain delineation and management.

GEO 495. Geology Seminar. 1 Hour

Introduction to professional practices in the geosciences. Students will attend seminar talks by guest speakers, research career options and graduate programs in the earth sciences, develop a professional resume, and participate in other profession-building activities. May be repeated. Prerequisite(s): Permission of instructor.

GEO 498. Geological Research and Thesis. 4 Hours

Research project within an area of the geological sciences, including, but not limited to, environmental geology, geochemistry, geomorphology, or paleontology. The results are to be presented in a written thesis. Prerequisite(s): Permission of Instructor.

Global Languages and Cultures

Majors:

- Bachelor of Arts, French (p. 185)
- Bachelor of Arts, German (p. 185)
- Bachelor of Arts, Spanish (p. 186)

Minors:

- French (p. 187)
- German (p. 187)
- Italian (p. 187)
- Spanish (p. 187)

The Department of Global Languages and Cultures offers instruction in Arabic, Chinese (Mandarin), French, German, Italian, Latin, Russian, and Spanish and thus brings a distinctively international perspective to the university community. The language programs focus on the development of proficiency in speaking, writing, reading, and listening, and integrate the study of literature, linguistics, business, and culture.

Faculty members in the Department of Global Languages and Cultures lead one-month language-immersion study programs in China, France, Germany, Italy, Latin America, and Spain in conjunction with the Center for International Programs (CIP). Participants in these programs can earn up to seven semester hours of language credit.

Students in B.A. programs can acquire teacher licensure in French, German, or Spanish through the dual-degree B.A. and B.S.E. programs conducted in conjunction with the Department of Teacher Education in the School of Education and Health Sciences. For details consult the department chairperson.

All new students who have previously studied their language of choice, continue their study in courses in which all enrolled students are at approximately the same level of proficiency. Students' proficiency levels for the first enrollment in a language class are determined by the results of the department's two-phase placement examination. Credit, but not placement, is awarded for scores of three or higher on the Advanced Placement language examinations.

A major in French, German or Spanish consists of 25 semester hours at the 300-level or higher. Many students combine a major in the department with a major in another discipline.

A minor in French, German, Italian or Spanish consists of 12 semester hours at the 300-level in the target language. Courses taught in English do not count. A minimum of 6 semester hours of course work at the 300-400 level in the minor must be completed at the University. This does not include EM Credit.

Courses beyond the 100-level in Latin and Russian are not offered on a regular basis. Please consult the department chairperson for details.

Faculty

Francisco Peñas-Bermejo, Chairperson

Professors Emeriti: Chiodo, Conard, Mosher, O'Meara, Romaguera

Professors: Castro, Peñas-Bermejo

Associate Professors: Espinoza, Krugh, Ventura, Work

Assistant Professors: Aguilar-Sánchez, Costales, Yang

Lecturers: Castro García, Crowner, Elyamani, Figueroa,

Schellhammer, Tanova, Tello-Sánchez

Bachelor of Arts, French (FRN) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹ 12

HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	

Second-Year Writing Seminar ³ 0-3

ENG 200 Writing Seminar II

Oral Communication 3

CMM 100 Principles of Oral Communication

Mathematics 3

Social Science 3

SSC 200 Social Science Integrated

Arts 3

Natural Sciences ⁴ 7

Crossing Boundaries variable credit

Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		

Advanced Study variable credit

Philosophy and/or Religious Studies

Historical Studies

Diversity and Social Justice 3

Major Capstone 0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements 25

FRN 311	French Conversation I	3
or FRN 312	French Conversation II	

FRN 321	French Composition I	3
or FRN 322	French Composition II	

LNG 495	The Language Major in Professional Careers (Satisfies CAP Major Capstone)	1
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Select two courses from: (at least one must be in literature) 6

FRN 341	French Culture & Civilization	
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FRN 360	Explication De Textes	
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FRN 361	Survey of French Literature I	
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FRN 362	Survey of French Literature II	
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FRN 381	History of French Cinema	
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FRN 450	French Literature	
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FRN 452	Old World Meets New (FRN)	
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Select four FRN courses (300/400 level) ¹ 12

Breadth

ASI 150	Introduction to the University Experience	1
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Total Hours to total at least 124

¹ Only one literature in translation course may count toward the major.

Students in the E11A program should note that courses in translation do not count toward the forty-five semester hours of a foreign language required for teacher certification.

Bachelor of Arts, German (GER) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹ 12

HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	

Second-Year Writing Seminar ³ 0-3

ENG 200 Writing Seminar II

Oral Communication 3

CMM 100 Principles of Oral Communication

Mathematics 3

Social Science 3

SSC 200 Social Science Integrated

Arts 3

Natural Sciences ⁴ 7

Crossing Boundaries variable credit

variable credit

Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements

GER 311	German Conversation I	3
or GER 312	German Conversation II	
GER 321	German Composition I	3
or GER 322	German Composition II	
LNG 495	The Language Major in Professional Careers (Satisfies CAP Major Capstone)	1
Select two courses from: (at least one must be in literature)		6
GER 341	German Culture & Civilization	
GER 361	Survey of German Literature I	
GER 362	Survey of German Literature II	
GER 450	German Literature	
Select four GER courses (300/400 level) ¹		12

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

¹ Only one literature in translation course may count toward the major. Students in the E11A program should note that courses in translation do not count toward the forty-five semester hours of a foreign language required for teacher certification.

Bachelor of Arts, Spanish (SPN) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	

Second-Year Writing Seminar ³ 0-3

ENG 200 Writing Seminar II

Oral Communication 3

CMM 100 Principles of Oral Communication

Mathematics 3

Social Science 3

SSC 200 Social Science Integrated

Arts 3

Natural Sciences ⁴ 7

Crossing Boundaries variable credit

Faith Traditions

Practical Ethical Action

Inquiry

Integrative

Advanced Study variable credit

Philosophy and/or Religious Studies

Historical Studies

Diversity and Social Justice 3

Major Capstone 0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts) 3

Mathematics, excluding MTH 205 (Satisfies CAP Mathematics) 3

Natural Sciences (Satisfies CAP Natural Science) 11

Social Sciences (Includes CAP Social Science) 12

Major Requirements

LNG 495 The Language Major in Professional Careers (Satisfies CAP Major Capstone) 1

SPN 311 Spanish Conversation I 3

or SPN 312 Spanish Conversation II

SPN 321 Spanish Composition I 3

or SPN 322 Spanish Composition II

Select two courses from: (at least one must be in literature) 6

SPN 341 Spanish Culture & Civilization

SPN 342 Ibero-American Culture & Civilization

SPN 361 Survey of Spanish Literature I

SPN 362 Survey of Spanish Literature II

SPN 363 Survey of Spanish-American Literature I

SPN 364 Survey of Spanish-American Literature II

SPN 450 Topics in Spanish Literature

SPN 451 Topics in Spanish-American Literature

SPN 471 Topics in Spanish Literature of the Twentieth Century

SPN 472 Topics in Spanish-American Literature of the Twentieth Century

Select four SPN courses (300/400 level) ¹ 12

Breadth

ASI 150 Introduction to the University Experience 1

Total Hours to total at least 124

¹ Only one literature in translation course may count toward the major. Students in the E11A program should note that courses in translation do not count toward the forty-five semester hours of a foreign language required for teacher certification.

Minor in French (FRN)

French

Select four FRN courses (300/400 level) 12

Total Hours 12

Minor in German (GER)

German

Select four GER courses (300/400 level) 12

Total Hours 12

Minor in Italian (ITA)

Italian

Select four ITA courses (300/400 level) 12

Total Hours 12

Minor in Spanish (SPN)

Spanish

Select four SPN courses (300/400 level) 12

Total Hours 12

- Bachelor of Arts, French (p. 185)
- Bachelor of Arts, German (p. 185)
- Bachelor of Arts, Spanish (p. 186)

French

First Year

Fall	Hours	Spring	Hours
ASI 150	1	FRN 141	4
FRN 101	4	ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	MTH (CAP Mathematics)	3
CMM 100 (CAP Communication)	3	INSS (CAP Natural Science w/ lab)	4
INSS (CAP Natural Science)	3		
	17		17

Second Year

Fall	Hours	Spring	Hours
FRN 201	3	FRN 202	3
ENG 200 (CAP Writing Seminar)	3	CAP Arts	3
INSS Natural Science w/lab	4	CAP Integrative	3
Social Science - intro level	3	SSC 200 (CAP Social Science)	3
General elective	3	Social Science - elective	3
	16		15

Third Year

Fall	Hours	Spring	Hours
FRN 311 or 312	3	FRN 321 or 322	3
CAP Faith Traditions	3	FRN Major elective	3
CAP Inquiry	3	CAP Advanced Philosophy/Religious Studies	3
Creative & Performing Arts	3	CAP Advanced Historical Studies	3
Social Science - 300/400 level	3	General elective	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
FRN Literature	3	LNG 495 (Satisfies CAP Major Capstone)	1
FRN Major elective	3	FRN Major elective	3
FRN Major elective	3	FRN Major elective	3
CAP Practical Ethical Action	3	CAP Diversity and Social Justice	3
CAP Advanced Philosophy/Religious Studies	3	General elective	3
		General elective	1
			14

Total credit hours: 124

German

First Year

Fall	Hours	Spring	Hours
ASI 150	1	GER 141	4
GER 101	4	ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	MTH (CAP Mathematics)	3

CMM 100 (CAP Communication)	3	INSS (CAP Natural Science w/lab)	4	HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
INSS (CAP Natural Science)	3						
		17	17	HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	INSS (CAP Natural Science w/lab)	4
Second Year							
Fall		Hours	Spring		Hours		
GER 201	3	GER 202	3	CMM 100 (CAP Communication)	3	MTH (CAP Mathematics)	3
ENG 200 (CAP Writing Seminar)	3	CAP Arts	3	INSS (CAP Natural Science)	3		
INSS Natural Science w/lab	4	CAP Integrative	3			17	17
Social Science - intro level	3	SSC 200 (CAP Social Science)	3	Second Year			
General Elective	3	Social Science - elective	3	Fall		Hours	Spring
		16	15	SPN 201	3	SPN 202	3
Third Year							
Fall		Hours	Spring		Hours		
GER 311 or 312	3	GER 321 or 322	3	ENG 200 (CAP Writing Seminar)	3	CAP Arts	3
CAP Faith Traditions	3	GER Major elective	3	INSS Natural Science w/lab	4	CAP Integrative	3
CAP Inquiry	3	CAP Advanced Philosophy/Religious Studies	3	Social Science - intro level	3	SSC 200 (CAP Social Science)	3
Creative & Performing Arts	3	CAP Advanced Historical Studies	3	General elective	3	Social Science - elective	3
Social Science - 300/400 level	3	General elective	3			16	15
		15	15	Third Year			
Fourth Year							
Fall		Hours	Spring		Hours		
GER Literature	3	LNG 495 (Satisfies CAP Major Capstone)	1	SPN 311 or 312	3	SPN 321 or 322	3
GER Major elective	3	GER Major elective	3	CAP Faith Traditions	3	SPN Major elective	3
GER Major elective	3	GER Major elective	3	CAP Inquiry	3	CAP Advanced Philosophy/Religious Studies	3
CAP Practical Ethical Action	3	CAP Diversity and Social Justice	3	Creative & Performing Arts	3	CAP Advanced Historical Studies	3
CAP Advanced Philosophy/Religious Studies	3	General elective	3	Social Science - 300/400 level	3	General elective	3
		15	14			15	15
Fourth Year							
Fall		Hours	Spring		Hours		
SPN Literature	3	LNG 495 (Satisfies CAP Major Capstone)	1	SPN Major elective	3	SPN Major elective	3
SPN Major elective	3	SPN Major elective	3	SPN Major elective	3	SPN Major elective	3
CAP Practical Ethical Action	3	CAP Diversity and Social Justice	3	CAP Practical Ethical Action	3	CAP Diversity and Social Justice	3
CAP Advanced Philosophy/Religious Studies	3	General elective	3	CAP Advanced Philosophy/Religious Studies	3	General elective	3
		15	14			15	14

Total credit hours: 124

Spanish

First Year

Fall	Hours	Spring	Hours
ASI 150	4	1 SPN 141	4
SPN 101	3	4 ENG 100 (CAP Humanities Commons)	3

Total credit hours: 124

Arabic Courses

ARA 101. Basic Proficiency in Arabic I. 4 Hours

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Arabic or have placed in this course by examination.

ARA 141. Basic Proficiency in Arabic II. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): ARA 101 or placement by examination.

ARA 201. Intermediate Arabic I. 4 Hours

Expansion and extension of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): ARA 141 or placement by examination.

ARA 202. Intermediate Arabic II. 4 Hours

Continued development of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Prerequisite(s): ARA 201 or placement by examination.

ARA 301. Arabic Conversation and Composition I. 3 Hours

Intensive practice in Modern Standard Arabic with emphasis on development of writing and speaking skills. Students will increase their vocabulary and their grammatical accuracy on topics related to contemporary life in the Arabic world. Prerequisite(s): ARA 202 or equivalent.

ARA 302. Arabic Conversation and Composition II. 3 Hours

Continuation of intensive practice in Modern Standard Arabic with emphasis on development of writing and speaking skills. Students will increase their vocabulary and their grammatical accuracy on topics related to contemporary life in the Arabic world. Prerequisite(s): ARA 301 or equivalent.

Chinese Courses

CHI 101. Basic Proficiency in Mandarin Chinese I. 4 Hours

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Mandarin Chinese or have placed into this course by examination.

CHI 141. Basic Proficiency in Mandarin Chinese II. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): CHI 101 or placement by examination.

CHI 170. Study Abroad. 3 Hours

Study in a foreign country/region whose everyday language is Chinese, focusing on the culture and civilization of the country. Conducted in English. Available only during the summer session. Repeatable when topic and content change. Prerequisite(s): CHI 101 (may be taken as a corequisite).

CHI 201. Intermediate Mandarin Chinese I. 4 Hours

Expansion and extension of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): CHI 141 or placement by examination.

CHI 202. Intermediate Mandarin Chinese II. 4 Hours

Continued development of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Prerequisite(s): CHI 201 or placement by examination.

CHI 345. Chinese Civilization and Culture. 3 Hours

Introduction to the culture and civilization of China with an emphasis on how the key ideas and practices of Chinese culture shape the daily lives of contemporary Chinese people. Taught in English.

CHI 391. Directed Study. 1-3 Hours

Guided study on selected topics and/or issues involving language proficiency, literature, linguistics or culture under the supervision of an instructor. Admission to this course and number of semester hours require approval of the chairperson. May be repeated when topic changes. Prerequisite(s): CHI 202; permission of department chairperson.

French Courses

FRN 101. Basic Proficiency in French I. 4 Hours

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied French or have placed into this course by examination.

FRN 131. Intensive Fundamental French. 2 Hours

Intensive development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission restricted to those who have previous experience with the language and place into this course by examination. Credit granted for only ONE of the following: FRN 101 or FRN 131.

FRN 141. Basic Proficiency in French II. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): (FRN 101 or FRN 131) or placement by examination.

FRN 201. Intermediate French I. 3 Hours

Development of reading, listening, writing, and speaking skills. Language laboratory required. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): FRN 141.

FRN 202. Intermediate French II. 3 Hours

Development of reading, listening, writing, and speaking skills. Language laboratory required. Prerequisite(s): FRN 201.

FRN 270. Intermediate Study Abroad. 1-7 Hours

Intermediate intensive study in a foreign country/region whose everyday language is French. Instruction in language, culture and civilization. Conducted in French. Available only during the summer session. Repeatable when subtitle and content change. Prerequisite(s): FRN 141 or equivalent.

FRN 311. French Conversation I. 3 Hours

Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture. Prerequisite(s): FRN 202.

FRN 312. French Conversation II. 3 Hours

Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture. Prerequisite(s): FRN 202.

FRN 321. French Composition I. 3 Hours

Practice in composition on topics dealing with French life and culture. Systematic vocabulary enrichment, refinement of grammar, and assimilation of stylistic patterns. Emphasis on correct writing and creativity. Initiation into the concept of style in French prose. Prerequisite(s): FRN 311 or FRN 312.

FRN 322. French Composition II. 3 Hours

Practice in composition on topics dealing with French life and culture. Systematic vocabulary enrichment, refinement of grammar, and assimilation of stylistic patterns. Emphasis on correct writing and creativity. Initiation into the concept of style in French prose. Prerequisite(s): FRN 311 or FRN 312.

FRN 325. Introduction to Commercial French. 3 Hours

Introduction to French business and the French position in international trade. Basic vocabulary of the office and the world of trade, introduction to formal correspondence and transactions. Prerequisite(s): FRN 311 or FRN 312.

FRN 331. Phonetics & Diction. 3 Hours

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FRN 341. French Culture & Civilization. 3 Hours

Introduction to the history of French civilization with emphasis on the arts and life in each major cultural period. Recommended for all French majors and minors. Prerequisite(s): FRN 311 or FRN 312.

FRN 350. French Literature in Translation. 3 Hours

Course to acquaint students with major topics in French and Francophone literature. Conducted in English. Repeatable when subtitle and content change.

FRN 352. Old World Meets New (ENG). 3 Hours

Readings of (1) non-fictional narratives regarding French encounters with American Indians in the sixteenth and seventeenth centuries and (2) literary and philosophical works on this topic. Conducted in English. Students receive credit for either FRN 352 or FRN 452, not both.

FRN 360. Explication De Textes. 3 Hours

Introduction to method of analyzing literary texts, both prose and poetry. Elements of French versification. Recommended for all French majors and prospective teachers. Prerequisite(s): FRN 311 or FRN 312.

FRN 361. Survey of French Literature I. 3 Hours

Major texts, trends, authors from the Middle Ages to the present, showing influences and continuity. Lectures, discussions, oral and written reports. Recommended for all French majors and prospective teachers. Prerequisite(s): FRN 311 or FRN 312.

FRN 362. Survey of French Literature II. 3 Hours

Major texts, trends, authors from the Middle Ages to the present, showing influences and continuity. Lectures, discussions, oral and written reports. Recommended for all French majors and prospective teachers. Prerequisite(s): FRN 311 or FRN 312.

FRN 370. Advanced Study Abroad. 1-7 Hours

Advanced intensive study in a foreign country/region whose everyday language is French, treating its language, culture, and civilization. Conducted in French. Available only during the summer session. Repeatable when subtitle and content change. Prerequisite(s): FRN 202 or equivalent.

FRN 381. History of French Cinema. 3 Hours

Survey of the trends, styles, and principal directors in the history of French cinema. Discussion of personal, social, and cultural values portrayed in films. Prerequisite(s): FRN 311 or FRN 312.

FRN 450. French Literature. 3 Hours

Lectures and discussion concentrating on specialized genres, periods, or authors. Repeatable when subtitle and content change. Prerequisite(s): FRN 311 or FRN 312.

FRN 452. Old World Meets New (FRN). 3 Hours

Readings of (1) non-fictional narratives regarding French encounters with American Indians in the sixteenth and seventeenth centuries and (2) literary and philosophical works on this topic. Conducted in French. Students receive credit for either FRN 352 or FRN 452, not both. Prerequisite(s): FRN 311 or FRN 312.

FRN 469. French Linguistics. 3 Hours

Synchronic analysis of modern French language, including a contrast of the French sound system, morphology, and syntax with English structures; the historical derivation of French, creolization, and approaches to teaching French to English-speaking persons. Conducted in French. Prerequisite(s): (FRN 311 or FRN 312); LNG 468.

FRN 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

FRN 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

FRN 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

FRN 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

FRN 491. Independent Study. 1-3 Hours

Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of the chairperson. Prerequisite(s): FRN 202; permission of department chairperson.

German Courses**GER 101. Basic Proficiency in German I. 4 Hours**

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied German or have placed into this course by examination.

GER 131. Intensive Fundamental German. 2 Hours

Field-based course examining the geologic history of the Miami Valley and Dayton area; processes leading to the modern landscape; the impact of human activity will be assessed. Prerequisite(s): GEO 109 or GER 115 or permission of instructor.

GER 141. Basic Proficiency in German II. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): (GER 101 or GER 131) or placement by examination.

GER 201. Intermediate German I. 3 Hours

Systematic grammar review. Increased use of the language in written exercises and classroom discussions based on readings. Exposure to the development of German civilization and culture. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): GER 141.

GER 202. Intermediate German II. 3 Hours

Systematic grammar review. Increased use of the language in written exercises and classroom discussions based on readings. Exposure to the development of German civilization and culture. Prerequisite(s): GER 201.

GER 311. German Conversation I. 3 Hours

Practice to increase listening comprehension and fluency in speaking about topics from the personal and everyday to issues of current interest with focus on describing and narrating in paragraph-length structures. In-depth exploration of cultural commonalities and differences between the German-speaking countries and the United States. Focus on development of vocabulary and practice of expressions essential for oral communication. May be taken in either sequence. Prerequisite(s): GER 202.

GER 312. German Conversation II. 3 Hours

Practice to increase listening comprehension and fluency in speaking about topics from the personal and everyday to issues of current interest with focus on describing and narrating in paragraph-length structures. In-depth exploration of cultural commonalities and differences between the German-speaking countries and the United States. Focus on development of vocabulary and practice of expressions essential for oral communication. May be taken in either sequence. Prerequisite(s): GER 202.

GER 321. German Composition I. 3 Hours

Practice in personal and topical writing in German that seeks to develop the ability to write well-structured paragraphs. Systematic vocabulary building and grammatical refinement and review. Readings on key issues of the day and/or topics providing crucial insight into German and European thinking and concerns. May be taken in either sequence. Prerequisite(s): GER 311 or GER 312.

GER 322. German Composition II. 3 Hours

Practice in personal and topical writing in German that seeks to develop the ability to write well-structured paragraphs. Systematic vocabulary building and grammatical refinement and review. Readings on key issues of the day and/or topics providing crucial insight into German and European thinking and concerns. May be taken in either sequence. Prerequisite(s): GER 311 or GER 312.

GER 325. Commercial German. 3 Hours

Introduction to the business language, customs, and economic profile of the German-speaking countries. Vocabulary of the office and world of trade. Business correspondence. Germany's economic and cultural position and goals within the context of the European Union and the world. Course provides an introduction to working in an international business setting. Prerequisite(s): GER 311 or GER 312 or equivalent.

GER 341. German Culture & Civilization. 3 Hours

Introduction to German culture and civilization with emphasis on the arts, intellectual developments, and life in various periods of German history. Conducted in German. Prerequisite(s): GER 311 or GER 312.

GER 342. Germany and the New Europe. 3 Hours

Examination of developments in the life and culture, and the political, economic, and social realities in Germany from the end of WWI to the reunited country of today which is the largest member of EU. Course also explores the ideas and ideals on which the EU is founded, its present influence in the world, and how this new Europe differs from the United States of America. Conducted in German. Prerequisite(s): (GER 311 or 312) or equivalent.

GER 350. German Literature & Civilization. 3 Hours

Course to acquaint students with major German writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

GER 351. German Film. 3 Hours

Introduction to the aesthetic and thematic richness of German film. Students will study the cinema of the Weimar Republic within its historical context and its appropriation by Hollywood. This course will also introduce cross-cultural films having to do with identity, women, immigrant workers, asylum seekers, postcolonialization, nationalism, social theory, ideology, and political activism. Prerequisite(s): GER 311 or GER 312.

GER 361. Survey of German Literature I. 3 Hours

German literary works from 1750 to the present reflecting the philosophy, aesthetics, and concerns of the time. Skills development for reading literary and cultural texts and writing on analytic and interpretative topics. May be taken in either sequence. Prerequisite(s): ((GER 311 or GER 312); (GER 321 or GER 322)) or equivalent.

GER 362. Survey of German Literature II. 3 Hours

German literary works from 1750 to the present reflecting the philosophy, aesthetics, and concerns of the time. Skills development for reading literary and cultural texts and writing on analytic and interpretative topics. May be taken in either sequence. Prerequisite(s): ((GER 311 or GER 312); (GER 321 or GER 322)) or equivalent.

GER 370. Study Abroad. 1-6 Hours

Intensive study in a foreign country whose everyday language is German, treating the culture and civilization of the country. Conducted in German. Available only during the summer session. Repeatable when subtitle and content change. Prerequisite(s): GER 202.

GER 450. German Literature. 3 Hours

Lectures and discussions in German in such specialized areas as Medieval lyric, Romanticism, twentieth-century novel, modern drama, and individual authors. Repeatable when subtitle and content change. Prerequisite(s): GER 311 or GER 312.

GER 469. German Linguistics. 3 Hours

Synchronic analysis of modern German language, including a contrast of the German sound system, morphology, and syntax with English structures; the historical derivation of German, the modern German dialects, and approaches to teaching German to English-speakers. Conducted in German. Prerequisite(s): (GER 311 or 312); LNG 468.

GER 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

GER 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

GER 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

GER 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

GER 491. Independent Study. 1-3 Hours

Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson. Prerequisite(s): GER 202; permission of instructor.

Hindi Courses**HND 101. Beginning Hindi I. 3 Hours**

Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to HND 101 restricted to those who have not studied Hindi or have placed into that course by examination. Offered only in India in connection with the B.A. Program in Philosophy. Credit is granted for only one of the following: HND 101, HND 102 or HND 121.

HND 102. Beginning Hindi II. 3 Hours

Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to HND 102 is open only to those who have successfully completed 101. Offered only in India in connection with the B.A. Program in Philosophy. Credit is granted for only one of the following: HND 101, HND 102 or HND 121.

HND 121. Elementary Hindi. 4 Hours

Review and further development of fundamental communication skills in reading, listening, writing, and speaking. Admission restricted to those who have studied the language for at least two years and place into the course by examination. Offered only in India in connection with the B.A. Program in Philosophy. Credit granted for only one of the following: HND 101 and HND 102 or HND 121.

HND 141. Basic Proficiency in Hindi. 3 Hours

Further development of communication skills in reading, listening, writing, and speaking. Admission by examination or successful completion of HND 102 or HND 121. Successful completion of this course includes the demonstration of the minimal level of proficiency required for the College of Arts and Sciences' Liberal Studies Curriculum. Offered only in India in connection with the B.A. Program in Philosophy.

HND 201. Intermediate Hindi I. 3 Hours

Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern prose and poetry; brief essays in Hindi. Offered only in India in connection with the B.A. Program in Philosophy. Prerequisite(s): HND 141; previous study of elementary Hindi in school or elsewhere; ability to speak, read, understand, and write simple Hindi.

HND 202. Intermediate Hindi II. 3 Hours

Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern prose and poetry; brief essays in Hindi. Offered only in India in connection with the B.A. Program in Philosophy. Prerequisite(s): HND 201.

Italian Courses

ITA 101. Beginning Italian I. 4 Hours

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Italian or have placed into this course by examination.

ITA 141. Basic Proficiency in Italian. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): ITA 101 or placement by examination.

ITA 170. Study Abroad. 3 Hours

Study in a foreign country/region whose everyday language is Italian, focusing on the culture and civilization of the country. Conducted in English. Available only during the summer session. Repeatable when topic and content change. Prerequisite(s): ITA 101 (may be taken as a corequisite).

ITA 201. Intermediate Italian I. 3 Hours

Development of reading, listening, writing, and speaking skills. Conversation practice, oral reports, reading assignments, composition assignments, and grammar exercises. The course is conducted in Italian. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): ITA 141.

ITA 202. Intermediate Italian II. 3 Hours

Development of reading, listening, writing, and speaking skills. Conversation practice, oral reports, reading assignments, composition assignments, and grammar exercises. The course is conducted in Italian. Prerequisite(s): ITA 201.

ITA 313. Communicating in Italian I. 3 Hours

Intensive practice in speaking and writing Italian at an advanced level. Emphasis on building vocabulary, learning correct idiomatic usage, increasing fluency, and improving syntax and style. The course is conducted in Italian. ITA 313 and 314 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 314. Communicating in Italian II. 3 Hours

Intensive practice in speaking and writing Italian at an advanced level. Emphasis on building vocabulary, learning correct idiomatic usage, increasing fluency, and improving syntax and style. The course is conducted in Italian. ITA 313 and 314 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 341. Italian Culture & Civilization I. 3 Hours

Survey of the major historical and cultural events in Italy from the Middle Ages to the present. All readings, lectures, discussions, reports, and tests are in Italian. ITA 341 and 342 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 361. Survey of Italian Literature I. 3 Hours

Italian literature from its beginnings in the thirteenth century to the present. Principal writers and literary trends; the techniques of literary analysis. Lectures, discussions, readings, and papers are in Italian. ITA 361 and ITA 362 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 362. Survey of Italian Literature II. 3 Hours

Italian literature from its beginnings in the thirteenth century to the present. Principal writers and literary trends; the techniques of literary analysis. Lectures, discussions, readings, and papers are in Italian. ITA 361 and ITA 362 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 491. Independent Study. 1-3 Hours

Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson. Prerequisite(s): ITA 202 or permission of instructor.

Languages Courses

LNG 000. Language Placeholder. 0 Hours

LNG 101. Beginning Language Study. 4 Hours

Development of fundamental communication skills in reading, listening, writing, and speaking with a focus on basic proficiency in survival communication, and familiarization with culture in languages other than those regularly taught in the Department of Languages. May be offered through distance learning or study abroad with the support of the Department of Languages. No previous study of the language is presupposed (for LNG 101 only). Offered with different suffixes according to the language studied.

LNG 141. Basic Proficiency in Language. 4 Hours

Further development of communication skills in reading, listening, writing, and speaking with a focus on basic proficiency in survival communication, and familiarization with culture in languages other than those regularly taught in the Department of Languages. Offered with different suffixes according to the language studied. Prerequisite(s): LNG 101 in the same language or equivalent.

LNG 201. Intermediate Language I. 4 Hours

Expansion and extension of listening, speaking, reading, and writing skills through conversation practice, reading assignments, composition assignments, and grammar exercises. Offered with different suffixes according to the language studied. Prerequisite(s): LNG 141 in the same language or equivalent.

LNG 202. Intermediate Language II. 4 Hours

Continued development of proficiency in listening, speaking, reading and writing through conversation practice, reading assignments, composition assignments, and grammar exercises. Offered with different suffixes according to the language studied. Prerequisite(s): LNG 201 in the same language or equivalent.

LNG 320. Instructed Second Language Acquisition. 2 Hours

Study of cognitive, linguistic, sociolinguistic, and constructivist approaches to instructed second language acquisition, including the relationship between classroom interaction and language acquisition.

LNG 330. Teaching World Languages in the Elementary School (PK-6). 4 Hours

An introduction to the pedagogical, philosophical, and psychological aspects of teaching foreign languages in elementary school. Topics: national and state standards, learners with special needs, reading in the foreign language, and professional associations. Prerequisite(s): EDT 110; at least two 300-level courses in the language to be taught.

LNG 468. Introduction to Linguistics. 3 Hours

Survey of the various aspects of a scientific description of human language: phonetics, phonology, morphology, syntax, semantics, and pragmatics. Interdisciplinary exploration of the reciprocal impact of linguistics on psychology, sociology, and language acquisition theory. Prerequisite(s): ((ENG 102 or ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing or permission of department chairperson.

LNG 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

LNG 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

LNG 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

LNG 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

LNG 495. The Language Major in Professional Careers. 1 Hour

Exploration of lifelong learning opportunities to maintain and increase functional proficiency in the language studied; the relationship between language proficiency and intercultural studies, and the application of language proficiency in the workplace. Student's language and cultural proficiency-level at the conclusion of the undergraduate experience will be determined. Required of declared majors in languages (FRN, GER, and SPN). Taught in English. Prerequisite(s): Completion of 18 credit hours of upper-division courses in language major.

Latin Courses**LAT 101. Basic Proficiency in Latin I. 4 Hours**

Development of basic skills in reading, listening, and writing through extensive practice in language use. Admission is restricted to those who have not studied Latin or have placed into this course by examination.

LAT 131. Intensive Fundamental Latin. 2 Hours

Intensive development of fundamental skills in reading, listening, and writing through extensive practice in language use. Admission restricted to those who have previous experience with the language and place into this course by examination. Credit granted for only ONE of the following: LAT 101 or LAT 131.

LAT 141. Basic Proficiency in Latin II. 4 Hours

Further development of fundamental skills in reading, listening, and writing through extensive practice in language use. Prerequisite(s): (LAT 101 or LAT 131) or placement by examination.

LAT 201. Intermediate Latin I. 3 Hours

Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): LAT 141.

LAT 202. Intermediate Latin II. 3 Hours

Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid. Prerequisite(s): LAT 201.

LAT 321. Latin Composition & Syntax. 3 Hours

Practice in writing Latin, for enrichment of vocabulary, refinement of grammar, and control of major Latin prose styles. Prerequisite(s): LAT 202.

LAT 350. Latin Literature. 3 Hours

Advanced readings in a particular author or genre (epic, drama, history, philosophy). Repeatable when subtitle and content change. Prerequisite(s): LAT 202.

LAT 491. Independent Study. 1-3 Hours

Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson. Prerequisite(s): LAT 202 or permission of department chairperson.

Russian Courses**RUS 101. Basic Proficiency in Russian I. 4 Hours**

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Russian or have placed into this course by examination.

RUS 141. Basic Proficiency in Russian II. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): RUS 101 or placement by examination.

RUS 201. Intermediate Russian I. 3 Hours

Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): RUS 141.

RUS 202. Intermediate Russian II. 3 Hours

Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry. Prerequisite(s): RUS 201.

RUS 311. Russian Conversation I. 3 Hours

Vocabulary development, pattern drills, and the use of idioms in discussion and oral reports centered on Russian life and culture. RUS 311 and 312 may be taken in either sequence. Prerequisite(s): RUS 202.

RUS 312. Russian Conversation II. 3 Hours

Vocabulary development, pattern drills, and the use of idioms in discussion and oral reports centered on Russian life and culture. RUS 311 and RUS 312 may be taken in either sequence. Prerequisite(s): RUS 202.

RUS 321. Russian Composition. 3 Hours

Practice in composition on topics dealing with Russian life and culture; personal and business letters. Short weekly assignments to build vocabulary and control of idioms. Prerequisite(s): RUS 202.

RUS 361. Survey of Russian Literature. 3 Hours

Russian literature and its development during the nineteenth and twentieth centuries. Study of exemplary works and literary movements. Prerequisite(s): RUS 202.

RUS 491. Independent Study. 1-6 Hours

Independent study under the guidance of an instructor. Admission to course and number of semester hours require approval of chairperson. Repeatable when content changes.

Spanish Courses**SPN 101. Basic Proficiency in Spanish I. 4 Hours**

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Spanish or have placed into this course by examination.

SPN 131. Intensive Fundamental Spanish. 2 Hours

Intensive development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission restricted to those who have previous experience with the language and place into this course by examination. Credit granted for only ONE of the following: SPN 101 or SPN 131.

SPN 141. Basic Proficiency in Spanish II. 4 Hours

Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): (SPN 101 or SPN 131) or placement by examination.

SPN 201. Intermediate Spanish I. 3 Hours

Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): SPN 141.

SPN 202. Intermediate Spanish II. 3 Hours

Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required. Prerequisite(s): SPN 201.

SPN 270. Study Abroad. 1-6 Hours

Intensive study in a foreign country whose everyday language is Spanish, treating the culture and civilization of the country. Conducted in Spanish. Available only during the summer session. Repeatable when subtitle and content change. Prerequisite(s): SPN 141 or equivalent.

SPN 311. Spanish Conversation I. 3 Hours

Development of fluency in the vocabulary and idioms of the spoken language through discussion of topics related to contemporary life in the Hispanic world. Prerequisite(s): SPN 202.

SPN 312. Spanish Conversation II. 3 Hours

Development of fluency in the vocabulary and idioms of the spoken language through discussion of topics related to contemporary life in the Hispanic world. Prerequisite(s): SPN 311.

SPN 321. Spanish Composition I. 3 Hours

Practice in composition on a variety of topics. Systematic refinement and mastery of grammar and assimilation of stylistic patterns. Emphasis on developing facility in writing clearly and correctly in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 322. Spanish Composition II. 3 Hours

Practice in composition on a variety of topics. Systematic refinement and mastery of grammar and assimilation of stylistic patterns. Emphasis on developing facility in writing clearly and correctly in Spanish. Prerequisite(s): SPN 321.

SPN 325. Commercial Spanish. 3 Hours

Introduction to commercial correspondence as a basis for developing skills in writing Spanish business letters and other correspondence. Prerequisite(s): SPN 311 or SPN 312.

SPN 341. Spanish Culture & Civilization. 3 Hours

Readings and discussions on the historical, social, political, and cultural phenomena of Spain. Conducted in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 342. Ibero-American Culture & Civilization. 3 Hours

Readings and discussions on the historical, social, political, and cultural phenomena of Ibero-America. Conducted in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 350. Hispanic Literature in Translation. 3 Hours

Course to acquaint students with major Spanish and Spanish-American writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

SPN 361. Survey of Spanish Literature I. 3 Hours

Readings and analysis of the works of major Spanish authors and discussion of the principal literary trends in Spain from the Middle Ages to the twentieth century. Lectures, discussions, and assignments in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 362. Survey of Spanish Literature II. 3 Hours

Readings and analysis of the works of major Spanish authors and discussion of the principal literary trends in Spain from the Middle Ages to the twentieth century. Lectures, discussions, and assignments in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 363. Survey of Spanish-American Literature I. 3 Hours

Readings and analysis of the works of major Spanish-American authors and discussion of the principal literary trends in Spanish America from Discovery and Conquest through Realism and Naturalism. Conducted in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 364. Survey of Spanish-American Literature II. 3 Hours

Readings and analysis of the works of major Spanish-American authors and discussion of the principal literary trends in Spanish America from Modernism through the present day. Conducted in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 370. Study Abroad. 1-6 Hours

Intensive study in a foreign country whose everyday language is Spanish, treating the culture and civilization of the country. Conducted in Spanish. Available only during the summer session. Repeatable when subtitle and content change. Prerequisite(s): SPN 202.

SPN 380. Spanish & Ibero-American Cinema. 3 Hours

Introduction to cinematography and culture of Spanish and Ibero-American countries, emphasizing themes related to human rights (Socioeconomic, class, sexuality, gender, ethnicity), as well as critical and theoretical perspectives on films from these regions. Conducted in English. Prerequisite(s): ENG 102 or equivalent.

SPN 440. Spanish Sociolinguistics. 3 Hours

Analysis of the interrelations between linguistic practices and ideas in the Spanish-speaking world and the social contexts in which they develop. Topics examined include language contact, minority languages, and human rights; language policy and education planning; socially conditioned variation according to gender, class, and ethnicity; and linguistic ideologies and identities in Spain and Latin America. Conducted in Spanish. Prerequisite(s): SPN 321 or permission of department chairperson.

SPN 450. Topics in Spanish Literature. 3 Hours

Lectures and discussions concentrating on specialized genres, periods, or authors of Peninsular literature prior to the twentieth century. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 451. Topics in Spanish-American Literature. 3 Hours

Lectures and discussions concentrating on specialized genres, periods, or authors of Spanish-American literature prior to the twentieth century. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 469. Spanish Linguistics. 3 Hours

Synchronic analysis of modern Spanish language, including a contrast of the Spanish sound system, morphology, and syntax with English structures; the historical derivation of Spanish, the modern Spanish dialects (Spain and Latin America), and approaches to teaching Spanish to English speakers. Conducted in Spanish. Prerequisite(s): LNG 468; (SPN 311 or SPN 312).

SPN 471. Topics in Spanish Literature of the Twentieth Century. 3 Hours

Lectures and discussions concentrating on specialized periods, genres, or authors of twentieth-century Peninsular literature. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 472. Topics in Spanish-American Literature of the Twentieth Century. 3 Hours

Lectures and discussions concentrating on specialized periods, genres or authors of twentieth-century Spanish-American literature. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

SPN 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

SPN 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

SPN 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

SPN 480. Spanish & Ibero-American Cinema. 3 Hours

Introduction to cinematography and culture of Spanish and Ibero-American countries, emphasizing themes related to human rights (socioeconomic, class, sexuality, gender, ethnicity), as well as critical and theoretical perspectives on films from these regions. Conducted in Spanish. Prerequisite(s): SPN 312 or equivalent; SPN 342 recommended.

SPN 491. Independent Study. 1-3 Hours

Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson. Prerequisite(s): SPN 202; permission of department chairperson.

SPN 497. Service Learning Experience. 1-3 Hours

Supervised service experience or project which requires the use of Spanish. Repeatable up to a total of three semester hours. Prerequisite(s): SPN 311 or equivalent.

History

Major:

- Bachelor of Arts, History (p. 197)

Minor:

- History (p. 198)

History critically studies the past and those key values which have shaped society. The best tradition of historical study enables students to assess change over time and to create an interpretative narrative of the human experience. As an intellectual discipline, historical study includes historiography and historiographical interpretation, critical evaluation of historical sources, and causation and contextualization. Students in historical studies courses should be able to identify what historical details are necessary to understand how change occurs and how the topic at hand relates to wider (temporal and spatial) historical frameworks.

History also provides students with a sense of perspective and with the ability to make critical judgments - skills that are broadly applicable and extremely useful in a broad range of professions across the long term of one's professional career. Those with a sharply honed historical consciousness know that often what appears to be a simple solution to a simple problem will not work because unexpressed historical forces and traditions lie just beneath the surface. Therefore, historical

consciousness and historical analysis helps to make the world and the problems we confront on a daily basis - from the mundane to profound - comprehensible. From the broadest perspective, to be ignorant of history is to be, in a very fundamental way, intellectually defenseless, unable to understand the workings of this or other societies which are critical elements necessary in understanding our daily problems and devising solutions for them.

Students majoring in history are offered a flexible curriculum that allows them to have a double major or one or more minors. Students are also strongly encouraged to develop interdisciplinary areas of concentration to meet their interests and vocational and professional goals. Examples of areas of concentration are:

- Prelaw
- Business (with course work in Marketing, Finance, and other technical fields)
- International Studies and Human Rights
- Historical Administration, Preservation, and Archival Management
- Social Sciences, Mathematics and Statistics, and Economics

History majors should consult the department's Director of Curriculum and Advising for further details.

History majors pursue professions in numerous fields including:

- Historians as Educators
 - Elementary Schools
 - Secondary Schools
 - Postsecondary Education
 - Historic Sites and Museums
- Historians as Researchers
 - Museums and Historical Organizations
 - Cultural Resources Management and Historic Preservation
 - Think Tanks
- Historians as Communicators
 - Writers and Editors
 - Journalists
 - Documentary Editors
 - Producers of Multimedia Material
- Historians as Information Managers
 - Archivists
 - Records Managers
 - Librarians
 - Information Managers
- Historians as Advocates
 - Lawyers and Paralegals
 - Litigation Support
 - Legislative Staff Work
 - Foundations
- Historians in Businesses and Associations
 - Historians as Skilled Managers in Corporations
 - Contract Historians
 - Historians and Nonprofit Associations

Students in B.A. programs can acquire teacher licensure through the dual-degree B.A. and B.S.E. program conducted in conjunction with the Department of Teacher Education in the School of Education and Health Sciences. For details consult the department chairperson.

A history minor consists of 18 semester hours.

Faculty

Juan Santamarina, Chairperson
 Distinguished Service Professors: Alexander, Palermo
 Professors Emeriti: Eid, Flockerzie, Morman, Palermo, Schweikart, Taylor
 Professors: Amin, Bednarek, Fleischmann, Heitmann, Trollinger
 Associate Professors: Agnew, Borbonus, Cadegan, Carlson, Carter, Darrow, Hume, Merithew, Roy, Santamarina
 Assistant Professors: Glont, Reid, Sutherland, Uhlman
 Lecturers: Bartley, Gomez, Jaffe, Sanderson, Sextro, Washington

Bachelor of Arts, History (HST) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May satisfy CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11

Social Sciences (Includes CAP Social Science)	12
Major Requirements ¹	
HST 103 West and the World	3
HST 150 Introduction to the Historian's Craft	3
HST 251 American History to 1865 ²	3
or HST 252 American History Since 1865	
HST 300 Career Development in History	1
HST 301 Research Methods Seminar	3
HST 498 History Capstone Seminar (Satisfies CAP Major Capstone)	3
Select two courses from:	6
HST 220 Survey of Ancient History	
HST 260 History of Pre-Modern East Asia	
HST 280 Introduction to the Modern Middle East	
Select 4 HST courses (300 level) ³	12
Select one HST seminar (400 level) ⁴	3
Breadth	
ASI 150 Introduction to the University Experience	1
Total Hours to total at least	124

- ¹ Includes CAP components.
- ² Students who are majoring in both History and Adolescence to Young Adult (AYA) Integrated Social Studies (History and Social Science) Education in the School of Education and Allied Professions are required to take both HST 251 and HST 252, and only one non-U.S. 200-level area survey.
- ³ These electives should be distributed so that the student will have taken history (HST) electives in three geographical areas: United States, Europe, and at least one of the following: Africa, Asia, Latin America, Middle East.
- ⁴ Three semester hours of the seminar requirement may be achieved through the fulfillment of an experiential component earned through completion of three semester hours of HST 495 Internship.

Minor in History (HST)

History	
HST 103 West and the World	3
HST 251 American History to 1865	3
or HST 252 American History Since 1865	
Select two courses in American history (300/400 level)	6
Select two courses in Non-American history (300/400 level)	6
Total Hours	18

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ASI 120 (CAP Humanities Commons)	8
ASI 110 (CAP Humanities Commons)	7 HST 150	3
CMM 100 (CAP Communication)	3 Language 141	4
Language 101	4	
	15	15

Second Year		
Fall	Hours Spring	Hours
HST 251 or 252	3 HST 220, 260, or 280	3
Literature	3 HST 301	3
INSS (CAP Natural Science w/lab)	4 INSS (CAP Natural Science w/lab)	4
SSC 200 (CAP Social Science)	3 CAP Arts	3
Language 201 or contextual course	3 Social Science - intro level	3
	16	16

Third Year		
Fall	Hours Spring	Hours
HST 300	1 HST Major elective	3
HST Major elective	3 MTH (CAP Mathematics)	3
CAP Faith Traditions	3 CAP Advanced Philosophy/Religious Studies	3
INSS Natural Science	3 Social Science - 300/400 level	3
Creative & Performing Arts	3 General elective	3
Social Science - elective	3	
	16	15

Fourth Year		
Fall	Hours Spring	Hours
HST Major elective (CAP Advanced Historical Studies)	3 HST 498 (Satisfies CAP Major Capstone)	3
HST Seminar	3 HST Major elective	3
CAP Practical Ethical Action	3 CAP Inquiry	3
CAP Integrative	3 CAP Diversity and Social Justice	3
CAP Advanced Philosophy/Religious Studies	3 General elective	3
General elective	1	
	16	15

Total credit hours: 124

Courses

HST 103. The West & the World. 3 Hours

Survey of key themes in world history including the social, economic, cultural, political, and environmental forces that shaped the human past throughout the globe.

HST 150. Introduction to the Historian's Craft. 3 Hours

Introduction for history majors to the fundamental aspects of professional history. Basic elements of this reading- and writing-intensive course include terminology, methods of critique, internal and external analysis, and interpretation. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 198. History Scholars' Seminar. 3 Hours

Study and seminar discussion of selected historical documents dealing with major events and trends in Western civilization since 1715. Open by permission only to first-year students in the Berry Scholars Program.

HST 210. Making of Modern South Asia. 3 Hours

Historical survey and an anthropological exploration of the major political, economic, social, ecological, and cultural developments that have contributed to the making of region we now know as 'South Asia:' India, Pakistan, Bangladesh, Nepal, Sri Lanka, Bhutan, Maldives and Afghanistan. Prerequisite(s): HST 103 or equivalent.

HST 220. Survey of Ancient History. 3 Hours

Survey of ancient Mediterranean, African, and Asian history (c. 3,000 BCE to 500 CE) with emphasis on social structures, intellectual cultures, cross-cultural interaction, and the overall character and impact of antiquity. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 251. American History to 1865. 3 Hours

Survey of the development of the American nation from colonial times to 1865; political trends, economic and social foundations of American institutions. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 252. American History Since 1865. 3 Hours

Survey of the development of the nation after the Civil War, stressing social, economic, and political problems. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 260. History of Pre-Modern East Asia. 3 Hours

Historical survey of the cultures and states of East Asia, from the origins of agricultural civilization to the eighteenth century. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 280. Survey of Middle Eastern History. 3 Hours

Historical survey of the cultures and societies of the Middle East, from the rise of Islam to the modern period. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 299. Historical Background to Contemporary Issues. 3 Hours

Examination of the historical background of contemporary issues. The topics change from semester to semester according to our society's prevailing "headline" issues at the time of the course's offering. Focus on the methodology of history as a discipline and on the utility of historical analysis for understanding contemporary political, social and economic issues. Prerequisite(s): HST 103 or equivalent.

HST 300. Career Development in History. 1 Hour

Exploration of career opportunities open to History majors, with special emphasis on strategic planning for a career, creating a job portfolio, and mastering the practical mechanics of job searching. HST major. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 103 or ASI 110 or equivalent; HST 301 (may be taken as a corequisite).

HST 301. Research Methods Seminar. 3 Hours

Historical methods, philosophy, and introductory historiography, the last based on the professor's field of specialization. Required for all history majors. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 302. Identity in Ancient Greece. 3 Hours

This course examines the history of ancient Greece from the 8th century BCE to the 5th century CE and traces the formation of a common identity among Greeks. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 303. History of the Roman Republic & Empire. 3 Hours

Survey of Roman history with emphasis on the political, social, and institutional evolution of the Roman state and the organization and structure of the Roman Empire. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 304. Ancient History & Modern Ideology. 3 Hours

This course examines the ways in which classical antiquity continues to affect the modern world with a particular emphasis on its use to envision, create, sustain and evaluate national identities and other ideologies. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 305. Early Medieval Europe. 3 Hours

Study of the social, cultural, political, economic, and religious history of Europe from 400-1100. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 306. High and Late Medieval Europe. 3 Hours

Study of the social, economic, political, cultural, and religious history of Europe from 1000 to 1500.

HST 307. Renaissance & Reformation. 3 Hours

The development of European history from the fourteenth to the middle of the seventeenth century. Emphasis on the economic, political, social, and religious aspects of the Renaissance, Protestant Revolution, and Catholic Reformation. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 308. Shakespeare's Worlds. 3 Hours

A concentrated analysis of the various worlds created in Shakespeare's plays and their interconnection with and depiction of the major elements of the historical world of early modern England. In the process of this integrated analysis, the Historical Study and Arts Study domains will be respected and taught as separate disciplines. This course is cross-listed with ENG 363. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 310. History of Spain. 3 Hours

Study of the political, social, and cultural history of the Iberian Peninsula from the ancient to the modern period. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 311. Old Regime Europe. 3 Hours

From the later Reformation to the era of the French Revolution: intellectual and cultural development; political, economic, and social trends of the Old Regime. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 312. Age of Democratic Revolutions. 3 Hours

Historical analysis of the ideological, political, social and economic changes of the late eighteenth and early nineteenth centuries, emphasizing the interaction of revolutions and human rights norms. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 313. The Dual Revolution & its Consequences - Europe 1815-1914. 3 Hours

Historical analysis of nineteenth century Europe emphasizing the ideological, political, economic and social consequences of the Industrial and French revolutions, commonly known as the Dual Revolution. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 314. Modern Europe in Decline 1900-1945. 3 Hours

This course examines the history of Europe from the eve of the First World War in 1900 until the end of the Second World War in 1945. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 315. Postwar Europe 1945-1990. 3 Hours

This course examines the history of Europe from the end of the Second World War in 1945 to the end of the Cold War in 1990. Prerequisite(s): HST 103, REL 103, or equivalent.

HST 316. Beethoven & His Era. 3 Hours

Survey of the music of Ludwig van Beethoven, including orchestral works and chamber music, opera, keyboard and sacred music; and a survey of the historical context in which Beethoven lived and worked - Europe and the Habsburg Empire of the late eighteenth and early nineteenth centuries, and especially Vienna, the Habsburg capital. Beethoven is the culmination of the High Classic style and also the first of a new generation of Romantic composers. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 319. The British Empire. 3 Hours

An examination of the origin, development, decline and continuing legacies of the British Empire in the 19th and 20th century. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 320. European Military History. 3 Hours

Survey of warfare on the European continent from classical Greece through World War II emphasizing military institutions, organization, weapons, and campaigns and the role of the military in society. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 321. Modern France. 3 Hours

French history from the Bourbon Restoration to the present. Emphasis on political, socio-economic, and cultural factors. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 322. History of England. 3 Hours

Major forces and trends in the history of England from the early medieval period to the present, including their influence on social history and literature. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 323. Modern Germany. 3 Hours

Analysis of the development of the German state from 1848 through the period of unification, Second Empire, Weimar Republic, Third Reich, the post-World War II Germanies, to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 324. Comparative Nationalism. 3 Hours

Comparative study of the origins and consequences of national movements throughout the world. Attention given to the historiography of nationalism and the fate of the nation-state idea in a number of temporal, geographic, political and cultural settings. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 326. Russia, The Soviet Union & Beyond 1860-Present. 3 Hours

Social, political, and cultural history of Russia from the great reforms of the late empire, through the wars, revolutions, and reconstructions of the Soviet Period, to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 328. Tolstoy's Russia. 3 Hours

Intensive examination of reform, reaction and the end of empire over Russia's long 19th century (c. 1796-1917), using the lens of Tolstoy's and other's literary works to pay particular attention to how modernity disrupts agrarian, multiethnic and multiconfessional polities. Prerequisite(s): HST 103 or equivalent.

HST 329. American and Middle East. 3 Hours

Study of American involvement in the Middle East from the late 18th century until the present day. Topics include political, diplomatic and military events, as well as cultural, social, and religious debates that have defined the mutual interaction between Americans and Middle Easterners. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 330. History of East Asia to 1800. 3 Hours

Survey of East Asian history from the formation of ancient states to the establishment of the dynastic hegemonies of the seventeenth and eighteenth centuries. Analysis of social, political, and cultural change in East Asia through the intensive reading of Chinese, Japanese, and Korean primary sources in translation. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 331. History of India. 3 Hours

Survey of the development of civilization on the Indian subcontinent from the first extant records (c. 2500 BCE) to post-Independence modern India in connection with the B.A. Program in Philosophy. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 332. History of Modern East Asia. 3 Hours

This course examines the processes that shaped the formation of modern East Asia. In particular, the course follows the consolidation of early modern states, the encounter with European imperialism, the subsequent transformation of East Asian states and economies in the late nineteenth and early twentieth centuries, and the impact of war and revolution in the twentieth century on the shaping of contemporary national identities. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 333. The Making of the Modern Middle East. 3 Hours

This course examines the forces that have shaped the making of the modern Middle East from the nineteenth century to the present: reformist movements; imperialism and colonialism; nationalism; the rise and formation of modern nation states; regional and global interactions and conflicts; religion and the rise of Islamism; and social, cultural, and economic transformations in the region. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 334. History of the Palestinian-Israeli Conflict. 3 Hours

Study of the history of the Palestinian-Israeli conflict from its beginnings in the late nineteenth century up to the present, with emphasis on a variety of historical interpretations of the actions and perspectives of the different parties involved. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 335. History of South Asia. 3 Hours

Survey of the major political, religious, cultural and economic developments on the Indian subcontinent over the past 500 years. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 336. History of Africa to the Nineteenth Century. 3 Hours

Study of African history from the emergence of Africa's ancient kingdoms to the end of the trans-Atlantic slave trade in the nineteenth century. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 337. History of Africa - 19th Century to the Present. 3 Hours

This course examines the history of Africa from the nineteenth century to the present. It emphasizes slavery, colonialism, nationalism, decolonization, racism, and the post-colonial state. It is interdisciplinary in its approach and focus. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 338. State & Secession in South Asia. 3 Hours

Survey of the failure of the nation-state and the rise of secessionist movements in South Asia since 1947. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 339. Gandhi's India. 3 Hours

An examination of the life and times of M.K. Gandhi, an iconic figure in South Asian History, and his legacies worldwide. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 340. History of Science. 3 Hours

Survey of the development of science from its origins in the ancient world to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 341. Historical Perspectives on Science, Technology & Society. 3 Hours

Historical study with an institutional focus of how science and science-based technology have interacted with American society from the Colonial era to the present. Central to this course is the genesis of mass production, its coupling with mass distribution, and the rise of the industrial research laboratory. Primary topics include the Industrial Revolution, the revolution in transport, the introduction of new technologies in the electrical, aviation, automotive, nuclear, petrochemical, and pharmaceutical industries, and the relationship between these science-based technologies and society. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 342. Environmental History of the Americas. 3 Hours

Comparison and contrast of the histories of conservationism and environmentalism in the United States, Canada and Latin America. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 343. History of Civil Engineering. 3 Hours

Historical study of the development of civil engineering from the origins in the ancient world to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 344. History of Science, Technology & the Modern Corporation. 3 Hours

Historical study of the emergence of twentieth-century science-based industry. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 346. History of American Aviation. 3 Hours

Exploration of the technological, social, political, military and industrial history of American aviation. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 347. Sex, Race & Science. 3 Hours

Examines the development of scientific research on sex, race, and human nature focusing especially on the biological and the human sciences. Topics will include race science, the study of sex and sexuality, evolutionary accounts of human development, and relations between science and society from 1700. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 348. Life & Technology. 3 Hours

Study of how conceptions of life and technology have been tied together in key historical periods: from the early modern era, the industrial age, and the information age. Topics include life and mechanical philosophy; energy, work and life; cybernetics; reproductive technologies and genetic engineering; bioinformatics; and automata and robots. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 349. Technology & the Culture of War. 3 Hours

Investigation of the role of invention and engineering as it has been related to defense and war throughout the ages, focusing on the interrelationship of policy, strategy, organization, and technology from a global perspective. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 350. Gay & Lesbian U.S. History. 3 Hours

Upper level survey course which traces the history and trajectory of Gay and Lesbian communities in the U.S. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 351. American Gender & Women's History. 3 Hours

A history class which takes into account how men's and women's lives have changed over the course of American history from the colonial period to the present. Gender, as an analytical tool and an historical construct, is incorporated to examine social, political, cultural, economic, environmental, ideological, and legal factors in time and place as well as to evaluate the racial, ethnic, class, and religious differences that shaped everyday experience and structural forces in history. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 352. History of the American Family. 3 Hours

Survey of the historical development of American family life from the colonial period to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 353. History of Women in European Societies. 3 Hours

Study of the changing roles of women in European societies from the roots of industrialization to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 354. History of Women & Gender in the Middle East. 3 Hours

Study of the history of the evolving roles and status of women in Middle Eastern societies, from the early modern period to present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 355. American Urban History. 3 Hours

An examination of the modern American city from the late 19th century to the present. The course addresses contemporary (as well as historic) social issues and problems; examines significant social issues or problems in a multidisciplinary or interdisciplinary framework; and, most importantly, brings together different disciplinary perspectives to enhance students' understanding of significant issues facing the modern American city. Prerequisite(s): HST 103 or ASI 110 or equivalent; Junior Standing.

HST 356. Comparative History of Women in the Third World. 3 Hours

Study of the comparative histories of women in Third World societies from a global perspective, using specific case studies of women in different societies around the world. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 357. Modern Latin America. 3 Hours

Intensive examination of revolution and reaction in today's Latin America and the implications for those who formulate U.S. foreign policy. Prerequisite(s): HST 103 or equivalent.

HST 358. Social & Cultural History of Latin America. 3 Hours

Survey of social and cultural history of Latin America and the Caribbean from the pre-Columbian era to the present. Emphasis on the interaction between European colonizers, the Amerindian peoples of the hemisphere, the African slave trade and American slave system. Prerequisite(s): HST 103 or equivalent.

HST 359. History of American City Planning. 3 Hours

Historical analysis of the efforts of both public and private sector actors in the United States to shape the urban environment, including a focus on the emergence of the profession of city planning, a detailed examination of the roles of race and class in shaping planning decisions and their consequence, as well as issues of energy and sustainability. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 360. U.S. Legal & Constitutional History I. 3 Hours

An analysis of the major developments in American legal and constitutional history from colonial beginnings through the Civil War. Emphasis on the relationship between the Constitution, the law, and lawyers, on the one hand, and America's economic, social and political developments, on the other. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 361. U.S. Legal & Constitutional History II. 3 Hours

An analysis of the major developments in American legal and constitutional history from the Reconstruction era to the present. Emphasis on the relationship between the Constitution, the law, and lawyers, on the one hand, and America's economic, social, and political developments, on the other. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 363. The Wealth of Nations: A History of Economic Thought. 3 Hours

Survey of the history of economic thought from Adam Smith to the present based on a close reading of key primary texts and their connection to broader political, social and cultural events and trends that situates Catholic social teaching within this narrative. Prerequisite(s): HST 103 or equivalent.

HST 365. American Films as History. 3 Hours

Study of the development of American values, myths, institutions, and perspectives through the use of films as a primary source. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 368. The Soviet Experiment: From Lenin to Putin. 3 Hours

Survey of the history of the Soviet Union and the Russian Federation from roughly 1917 until the present offering an intensive examination of social, economic, political and cultural aspects of the Soviet project and the factors contributing to its end. Prerequisite(s): HST 103.

HST 369. Civil War & Reconstruction. 3 Hours

Remote and immediate causes of the Civil War; problems of North and South during the war; consequences of the war; efforts to create a new Union, 1865 to 1877; problems caused by those efforts. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 370. Economic & Business History of the United States. 3 Hours

Survey and analysis of American economic history, 1600 to present, primarily through a study of American business institutions and leaders. Includes analysis of major economic theories of history as well as case studies of entrepreneurs. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 371. Labor and Working Class History. 3 Hours

Study of labor and working class history in the modern world (late 18th-21st centuries) from comparative, global, and chronological perspectives. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 372. History of Religion in the United States. 3 Hours

Survey of religion in the United States from the colonial era to the present. Particular attention to the interaction of religion with other aspects of American society and culture. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 373. American Military History. 3 Hours

Survey of American military affairs, including military, naval, and air campaigns, from early settlement to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 374. Ireland & America. 3 Hours

Study of the cultural-historical background of both Scotch-Irish and Celtic Irish immigrants to America and how they influenced the varying reactions of the dominant Anglo-Saxon Protestantism of America. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 375. History of US Foreign Relations Since 1750. 3 Hours

A case-study approach to the philosophical, economic, political, and religious foundations of US foreign relations since 1750, the expansion of foreign relations during the continental expansion of the nineteenth century and the beginning of the extra-continental empire in 1898. Special emphasis on the emergence of multifaceted and interconnected global foreign relations after 1898. Course meets Advanced Historical Studies and Crossing Boundaries: Inquiry components. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 376. Social & Cultural History of the United States. 3 Hours

Social and cultural development of the American people: growth of national spirit, impact of expansion, conflict over slavery, and problems of industrialization and urbanization. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 377. Contemporary American History. 3 Hours

The immediate background of contemporary political, social, and economic problems, beginning with the impact of World War II on the United States. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 378. Immigration History. 3 Hours

This course approaches immigration history from geographically and chronologically expansive perspectives which highlight transnationalism as a category of analysis and a lived historical reality. The course links the experience of immigrants from different sending and receiving countries and compares the ways that local, national, continental and global conditions shaped migration over time. Immigrants were pushed and pulled to find work, to escape religious persecution, to pursue political freedoms, to secure human rights, and to cope with forces of the industrial and post industrial eras that included slavery, capitalism, patriarchy, empire, and other structural forces of oppression. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 380. Native American History. 3 Hours

Historical and descriptive survey of the native peoples of North America. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 382. History of Mexico. 3 Hours

Survey of Mexican history from pre-Columbian civilization to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 383. History of the Caribbean. 3 Hours

Study of the cultural, social, economic, and political history of the islands and the northern shore of South America through modern times, stressing areas that have gained independence or autonomy. Prerequisite(s): HST 103 or equivalent.

HST 384. Economic History of Latin America. 3 Hours

Examination of the integration of Latin America into the world trading system and analysis of the twentieth century's successes and failures of export-led growth and industrialization. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 385. The Atlantic World, 1492-1800. 3 Hours

Comparative look at the people and cultures of Europe, Africa and the Americas who collaborated in the colonization of the Americas. Topics to be covered will include: slavery, missionary work, virgin soil epidemics, frontier wars, gender and the invention of racial categories. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 386. China in Revolution. 3 Hours

Study of the history of China's turbulent twentieth century, with a focus on the social, political and cultural impacts of the 1911 Revolution, the Communist Revolution in 1949, and the Cultural Revolution of the 1960s. Prerequisite(s): HST 103 or equivalent.

HST 391. American Architectural History & Preservation. 3 Hours

Career-oriented course offering a theoretical background in historical preservation and techniques used in identification, research, and recording of historic landmarks worthy of preservation as part of the community heritage. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 397. History of Black Women. 3 Hours

Survey of the lived experiences of African American women and the interlocking themes of race, class, gender, sexuality, and religiosity that impacted their lives. This course examines their contributions in reform, activism, education, business, religion, law, literature, and politics. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 398. African American History before 1877. 3 Hours

This course examines the history and culture of African Americans from the great empires in Africa to the end of the United States Reconstruction era in 1877. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 399. History of Blacks in the United States Since 1900. 3 Hours

Study of the saga of black people in the U.S. from 1900 to the present. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 3XC. Non-equivalent transfer. 1-3 Hours**HST 3XG. Non-Equivalent Transfer. 0-99 Hours****HST 477. Honors Thesis Project. 3 Hours**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

HST 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

HST 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

HST 485. Seminar in American History. 3 Hours

Reading seminar concentrating on one historical topic in American history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 301 or permission of department chairperson.

HST 486. Seminar in European History. 3 Hours

Reading seminar concentrating on one historical topic in European history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 301 or permission of department chairperson.

HST 487. Seminar in Latin American History. 3 Hours

A reading seminar concentrating on one historical topic in Latin American history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 301 or permission of department chairperson.

HST 488. Seminar in African History. 3 Hours

Reading seminar concentrating on one historical topic in African history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 301 or permission of department chairperson.

HST 490. Seminar in Historiography. 3 Hours

Reading seminar concentrating on the various techniques and philosophies of history by which historians have done historical research. May be repeated as topics change. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 301 or permission of department chairperson.

HST 491. Seminar in Ancient History. 3 Hours

Reading seminar concentrating on one historical topic in ancient history for detailed analysis. May be repeated as topics change.

HST 492. Seminar in Asian History. 3 Hours

Reading seminar concentrating on one historical topic in Asian history for detailed analysis. May be repeated as topics change.

HST 493. Seminar in Middle Eastern History. 3 Hours

Reading seminar concentrating on one historical topic in Middle Eastern history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 103 or ASI 110 or equivalent; HST 301 or permission of department chairperson.

HST 495. Internship. 3 Hours

Practical and professional experience through work with approved organizations such as historical societies, architectural preservation boards, and business firms. Prerequisite(s): HST 103 or ASI 110 or equivalent; permission of supervising instructor.

HST 496. Independent Study. 1-6 Hours

The study of a special topic to be mutually selected by the student and a history professor. Prerequisite(s): HST 103 or ASI 110 or equivalent; permission of department chairperson.

HST 497. Honors Tutorial. 1-6 Hours

The study of a special topic to be selected by the instructor. Applicants will be admitted on the basis of academic record. May be repeated once. Prerequisite(s): HST 103 or ASI 110 or equivalent.

HST 498. History Capstone Seminar. 3 Hours

Capstone seminar course required for all senior history majors as the culmination of the Common Academic Program. Explores the perspective and practices of the professional historian. Students will demonstrate the ability to work critically with primary sources resulting in a scholarly project suited to their own professional goals. History majors only. Prerequisite(s): HST 103 or ASI 110 or equivalent, HST 150, HST 301.

HST 499. Topics in History. 1-6 Hours

Specific subtitles and descriptions to be announced in the composite and posted in the History department office. Prerequisite(s): HST 103 or ASI 110 or equivalent.

International Studies

- Bachelor of Arts, International Studies (p. 204)

Concentrations:

- Global Health and Environment (p. 205)

- Global Migration and Economic Development (p. 205)
- International Business (p. 205)
- International Education (p. 205)
- International Journalism and New Media (p. 205)
- Peace and Global Security (p. 205)

Minor:

- International Studies (p. 206)

International studies is a multidisciplinary major designed to meet the needs of students seeking the broadly based international perspective required for successful careers in education, government, international business, law, national and homeland security, humanitarian relief, and NGOs, among others. The curriculum includes a core of required courses, a concentration, a foreign language requirement, an international and/or cross-cultural experiential component, and a senior capstone seminar. The experiential component may be satisfied through study abroad, internship, language immersion, service, or work experience. The Center for International Programs and the Center for Social Concern can assist students in identifying many of these opportunities.

A minor in international studies consists of 21 semester hours.

International Studies Committee

Christopher Agnew, Director
 Bilocerkowycz (Political Science), Dasgupta (Anthropology), Hudson (Political Science), Krugh (Languages), MacLachlan (Music), Roy (History)

Bachelor of Arts, International Studies (INS) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	

Diversity and Social Justice	3
Major Capstone	0-3

- ¹ Completed with ASI 110 and ASI 120.
- ² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- ³ Completed with ENG 200H or ASI 120.
- ⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	3

Major Requirements: Foundation Requirements ¹ 48

Includes CAP Components	
ECO 204 Principles of Macroeconomics	3
INS 499 Senior Capstone Seminar (Satisfies CAP Major Capstone)	3
Select one course from:	3
HST 375 History of US Foreign Relations Since 1750	
POL 335 United States National Security Policy	
Select one course from:	3
ENG 345 Postcolonial Literature	
MUS 303 Introduction to Musics of the World	
PHL 358 Marxist Philosophy	
PHL 370 Political Philosophy	
REL 363 Faith & Justice	
REL 474 Women & the Global Church	
Select one course from:	3
POL 202 Introduction to Comparative Politics	
POL 214 Introduction to International Politics	
Select one course from:	3
ANT 306 Culture & Power	
ECO 203 Principles of Microeconomics	
POL 331 Nationalism & Ethnopolitics	
POL 340 Gender & International Relations	
SOC 435 Sociology of Globalization	
Select three area studies courses from three different disciplines:	9
ANT 352 Cultures of Latin America	
ANT 356 Cultures of Africa	
ANT 360 Making of Modern South Asia	
CHI 345 Chinese Civilization and Culture	
HST 315 Postwar Europe 1945-1990	
HST 319 The British Empire	
HST 326 Russia, The Soviet Union & Beyond 1860-Present	
HST 327 National Cultures of the Soviet Union & its Successor States	
HST 329 Americans and the Middle East	
HST 330 History of East Asia to 1800	
HST 331 India: Traditions and Encounters	
HST 332 History of Modern East Asia	
HST 333 Making of the Modern Middle East	

HST 334	History of the Palestinian-Israeli Conflict
HST 335	Making of Modern South Asia
HST 337	History of Africa - 19th Century to the Present
HST 339	Gandhi's India
HST 353	History of Women in European Societies
HST 354	History of Women & Gender in the Middle East
HST 357	Modern Latin America
HST 382	History of Mexico
HST 383	History of the Caribbean
HST 386	China in Revolution
PHL 355	Asian Philosophy
PHL 363	African Philosophy
PHL 365	Islamic Philosophy & Culture
PHL 379	Latin American Philosophy
POL 320	Comparative Politics: Western Europe
POL 321	Comparative Politics: Russia & the New States
POL 323	Comparative Politics: Latin America
POL 404	United States - Latin American Relations
REL 304	Hinduism
REL 305	Eastern Orthodoxy
REL 306	Buddhism
REL 307	Judaism
REL 308	Islam
REL 358	Liberation Theologies
REL 366	The Holocaust: Theological & Religious Responses
VAH 320	Latin American Art
VAH 330	Arts of Asia
Foreign language appropriate to concentration ²	
	6

Select one concentration from: ³

Concentration: Global Migration and Economic Development		15
Select two courses from:		6
ACC 200	Introduction to Accounting	
CMM 332	Publication Design	
ENG 370	Report & Proposal Writing	
POL 361	Leadership in Nongovernmental Organizations	
MPA 561	Nonprofit & Community Leadership ⁵	
MPA 562	Strategic Planning for Nonprofit & Community Organizations ⁵	
Select three courses from:		9
ANT/SOC 368	Immigration & Immigrants	
ECO 460	Economic Development & Growth	
ECO 461	International Economics	
HST 378	Immigration History	
POL 333	Politics of Human Rights	
POL 334	Politics of Human Rights II	
PHL 310	Social Philosophy	
PHL 371	Philosophy & Human Rights	
REL 330	Faith of Immigrants	
SOC 328	Racial & Ethnic Relations	
SOC 339	Social Inequality	
SOC 371	Sociology of Human Rights	

SOC 384	Food Justice
SWK 360	International Social Work

Concentration: International Business		15
INB 302	Survey of International Business	3
MGT 403	Cross-Cultural Management	3
Select three courses from:		9
ACC 207	Introduction to Financial Accounting	
ECO 460	Economic Development & Growth	
ECO 461	International Economics	
FIN 450	International Business Finance	
INB 350	Doing Business in Emerging Markets	
INB 351	Doing Business in Latin America	
INB 352	Doing Business in Asia	
INB 353	Doing Business in Europe	
INB 354	Doing Business in Africa	
INB 357	Export Management	
MKT 440	Global Marketing	
PHL 313	Business Ethics	

Concentration: International Education		15
EDT 437	Second Language Learning and Teaching	3
ENG 466	TESOL Methods for Teaching English Language Learners	3
ENG 472	The Structure of English	3
ENG/LNG 468	Introduction to Linguistics	3
Select one course from:		3
ANT 315	Language & Culture	
CMS 316	Intercultural Communication	
SWK 360	International Social Work	

Concentration: International Journalism and New Media		15
Select five courses from:		15
CMM 331	Feature Writing	
CMM 332	Publication Design	
CMM 340	Fundamentals of Broadcasting	
CMM 344	Multimedia Design & Production I	
CMM 350	History and Analysis of Propaganda	
CMM 355	Rhetoric of Social Movements	
CMM 431	Public Affairs Reporting	
CMM 432	Media Law	
CMS 414	Global Communication	

Concentration: Peace and Global Security		15
Select three courses from:		9
CJS 336	Comparative Criminal Justice Systems	
ECO 461	International Economics	
POL/INS 336	United Nations System: Theory and Practice	
POL 406	International Law & Organization	
POL 408	American Foreign Policy	
POL 452	Political Violence	

Select one course from:	3
HST 320 European Military History	
HST 349 Technology & the Culture of War	
HST 373 American Military History	
Select one course from:	3
PHL 317 Ethics of War	
PHL 327 Philosophy of Peace	
PHL 371 Philosophy & Human Rights	

Breadth

ASI 150 Introduction to the University Experience	1
Total Hours to total at least	124

- ¹ Courses taken for the major may also count toward completion of the Common Academic Program and the Liberal Studies Curriculum.
- ² Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Latin is not eligible for the INS language requirement. Completion satisfies the L2 requirement.
- ³ Students pursuing any concentration must take into account prerequisites or class standing restrictions.
- ⁴ This course counts for biology majors, but is accessible to non-majors as well.
- ⁵ With permission of the director of the Nonprofit & Community Leadership Certificate Program.
- ⁶ With permission of the INS director.

Minor in International Studies (INS)

International Studies

ECO 204 Principles of Macroeconomics	3
POL 214 Introduction to International Politics	3
Select one LNG course (202 level or above)	3
Select four INS courses (300/400 level) ¹	12
Total Hours	21

¹ Must be from at least three different disciplines, taken from International Studies core curriculum or concentrations.

First Year

Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3 PHL 103 (CAP Humanities Commons)	3
REL 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3
POL 202 or 214	3 Language 141	4
MTH 114 or 207 (Satisfies CAP Mathematics)	3 SCI 190 & 190L (CAP Natural Science)	4
Language 101	4	
	17	17

Second Year

Fall	Hours Spring	Hours
ECO 204	3 ANT 306, POL 331, POL 340, or SOC 435	3
ENG 200 (CAP Writing Seminar)	3 ENG 345, MUS 303, PHL 358, PHL 370, REL 363, or REL 474	3
SSC 200 (CAP Social Science)	3 CAP Faith Traditions	3
Language 201	3 Language 202	3
SCI 210 & 210L (CAP Natural Science)	4 SCI 230 (INSS Natural Science)	3
	16	15

Third Year

Fall	Hours Spring	Hours
HST 375 (CAP Advanced Historical Studies)	3 Literature	3
Area Study	3 Area Study	3
Concentration course	3 Area Study	3
CAP Arts / Creative and Performing	3 CAP Inquiry	3
Language 311	3 Language 300 or 400 level, Literature	3
	15	15

Fourth Year

Fall	Hours Spring	Hours
Concentration course	3 INS 499 (Satisfies CAP Major Capstone)	3
Concentration course	3 Concentration course	3
CAP Practical Ethical Action	3 Concentration course	3
CAP Integrative	3 CAP Advanced Philosophy/Religious Studies	3
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
	15	15

Total credit hours: 125

Courses

INS 336. United Nations System: Theory and Practice. 3 Hours
Introduction to the United Nations system with detailed case studies of specific countries, issues, and policies. Course also serves to prepare students for participation in the National Model United Nations Conference. Prerequisite(s): SSC 200.

INS 390. Model United Nations. 1 Hour
Examination of the work and procedures of the United Nations and its constituent bodies, study of various international issues and policies of member states, as well as of parliamentary diplomatic practices such as caucusing, resolution writing, and speech making in preparation for participation in Model United Nations simulations. Prerequisite(s): Permission of instructor.

INS 395. International Experience. 1 Hour

Orientation for and evaluation of study abroad, internship, immersion, work, or service experience in a foreign country, organization involved in international activities, or a cross-cultural setting in the United States. Grading Option Two only.

INS 399. Independent Study. 1-3 Hours

Independent reading and research on an interdisciplinary topic in international studies chosen by the student in consultation with one or more faculty members. May be repeated. Prerequisite(s): Permission of program director.

INS 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

INS 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

INS 495. International Studies Internship. 1-6 Hours

Practical, supervised experience with an approved organization dealing with international affairs. Repeatable up to six hours. Prerequisite(s): Permission of program director.

INS 499. Senior Capstone Seminar. 3 Hours

Capstone seminar for International Studies seniors in which students integrate the academic and experiential components of their multidisciplinary degree program in a capstone research project. Prerequisite(s): Senior status; international experience completed; permission of program director.

Marianist Social Transformation

The minor in Marianist social transformation offers an interdisciplinary approach to Catholic, Marianist, and Christian studies. The program allows the student to utilize the rich resources in service, teaching, and research at the University of Dayton in order to explore and investigate those topics and issues that lie at the heart of the University. Open to all, participants will benefit from the 200 year Marianist experiment in the professions and higher education. Through its courses and activities, the minor prepares distinctive graduates to carry out social transformation based upon an understanding of Catholic and Christian contributions to the arts, sciences, and the professions.

Marianist Studies Committee

Danielle M. Poe (Office of the Dean), Coordinator
Cadegan (History), Ensalaco (Political Science), Fitz (Ferree Professor in Social Justice), Inglis (Philosophy), Johnson (Religious Studies), Portier (Spearin Chair), Trollinger (History), Zukowski (Institute for Pastoral Initiatives)

Minor in Marianist Social Transformation (MST)

Marianist Social Transformation

MST 210	Speakers on Catholic Social Tradition	1
MST 310	Reading the Signs of the Times	3
or MST 311	Reading the Signs of the Times	
or MST 312	Reading the Signs of the Times	
Select one course from:		3
ASI 358	Christianity, Citizenship & Society	
HST 372	History of Religion in America	
PHL 327	Philosophy of Peace	
PHL 356	Christian Philosophy	
REL 363	Faith & Justice	
Select two courses from two different disciplines:		6
ASI 357	Vocation & the Arts	
ASI 371	Professional Ethics in a Global Community - Business Administration	
ASI 372	Professional Ethics in a Global Community - Education	
ASI 373	Professional Ethics in a Global Community - Engineering	
ASI 374	Professional Ethics in a Global Community - Philosophical	
ASI 375	Professional Ethics in a Global Community - Religious	
EGR 330	Engineering Design & Appropriate Technology	
ENG 323	Literature of the Christian Tradition	
ENG 384	Christianity & Modern Poetry	
HST 305	Early Medieval Europe	
HST 307	Renaissance & Reformation	
HST 311	Old Regime Europe	
HST 313	The Dual Revolution & its Consequences - Europe 1815-1914	
HST 358	Social & Cultural History of Latin America	
MUS 301	Music History & Literature I	
MUS 305	African-American Sacred Music	
MUS 350	Sacred Music History	
MUS 452	Contemporary Liturgical Music Repertoire	
PHL 307	Philosophy and Feminist Thought	
PHL 311	Philosophy of Religion	
PHL 312	Ethics	
PHL 313	Business Ethics	
PHL 315	Medical Ethics	
PHL 316	Engineering Ethics	
PHL 319	Information Ethics	
PHL 351	Jewish, Christian, and Islamic Philosophy	
PHL 360	Existentialism	
POL 333	Politics of Human Rights	
POL 426	Leadership in Building Communities	
PSY 451	Psychology of Religion	
REL 323	History of Early Christianity	
REL 324	History of Christianity II	

REL 358	Liberation Theologies
REL 367	Christian Ethics & Health Care Issues
REL 368	Christian Ethics & the Business World
REL 369	Engineering Ethics by Design: Theological Ethics and Engineering
REL 471	Women & Religion
REL 474	Women & the Global Church
SOC 334	Religion & Society
SOC 339	Social Inequality
SOC 426	Leadership in Building Communities
VAH 450	Italian Renaissance Art
VAH 460	Baroque Art

Total Hours 13

Courses

MST 210. Speakers on Catholic Social Tradition. 1 Hour

Introduction to contemporary Marianist, Catholic, and Christian social issues as reflected in presentations made on campus by significant outside speakers. Study and discussion of texts in order to meet and evaluate speakers.

MST 310. Reading the Signs of the Times. 3 Hours

An integrated interdisciplinary exploration of local needs in light of Catholic social tradition and Marianist educational philosophy. In the process of this integrated analysis, the Historical Study domain will be emphasized. This course is cross-listed with MST 311 and MST 312 and is the capstone for the minor. Prerequisite(s): MST 210; three courses in minor.

MST 311. Reading the Signs of the Times. 3 Hours

An integrated interdisciplinary exploration of local needs in light of Catholic social tradition and Marianist educational philosophy. In the process of this integrated analysis, the domain of Philosophy will be emphasized. This course is cross-listed with MST 310 and MST 312 and is the capstone for the minor. Prerequisite(s): MST 210; three courses in minor.

MST 312. Reading the Signs of the Times. 3 Hours

An integrated interdisciplinary exploration of local needs in light of Catholic social tradition and Marianist educational philosophy. In the process of this integrated analysis, the domain of Religious Studies will be emphasized. This course is cross-listed with MST 310 and MST 311 and is the capstone for the minor. Prerequisite(s): MST 210; three courses in minor.

Mathematics

Majors:

- Bachelor of Arts, Mathematics (p. 209)
- Bachelor of Science, Applied Mathematical Economics (p. 209)
- Bachelor of Science, Mathematics (p. 210)

Minors:

- Actuarial Science (p. 211)
- Mathematics (p. 211)

The B.A. program in mathematics provides for a breadth of mathematical study within the context of a liberal arts degree. It may be chosen as a preparation for a professional career in business, education, law, or social science. It affords the student a significant distribution of courses

in the humanities and social sciences so that he or she can develop a concentration in a field other than mathematics. The student's career goals will generally suggest desirable upper level mathematics electives. For example, prospective secondary mathematics teachers should participate in the licensure program and elect courses such as MTH 370, MTH 395, and MTH 466. Students with an interest in business, law, or social science should complete the probability and statistics sequence MTH 411-MTH 412.

The B.S. program in mathematics provides a foundation for students who wish to pursue graduate studies in any area of the mathematical sciences, to enter the actuarial profession, or to enter careers where mathematics is used in an engineering or science setting. A preparation for graduate programs in a mathematical science should include electives such as MTH 342, MTH 404, and MTH 471. Those planning on pursuing an actuarial career should take the actuarial science minor described below. To prepare for using mathematics in an applied context, some useful elective courses are MTH 403, MTH 404, and the MTH 411-MTH 412 sequence. All students pursuing a bachelor of science in mathematics are required to complete a minor in another subject.

The B.S. program in applied mathematical economics provides a foundation in economics, mathematics, and statistics needed for graduate study in economics or applied statistics, or for research and technical careers in business or government service. This degree is offered jointly by the Department of Mathematics and the Department of Economics and Finance in the School of Business Administration.

The basic courses are offered every term:

MTH 168	Analytic Geometry & Calculus I	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 219	Applied Differential Equations	3
MTH 308	Foundations & Discrete Mathematics	3
MTH 310	Linear Algebra & Matrices	3

Most majors will take MTH 218 and MTH 308 in the same term.

The required core courses are offered at least once a year:

MTH 330	Intermediate Analysis	3
MTH 361	Introduction to Abstract Algebra	3
MTH 411	Probability & Statistics I	3
MTH 412	Probability & Statistics II	3
MTH 430	Real Analysis	3

However, most of the other upper-level electives for the major are offered only once every two years; thus careful planning for a student's upper-level electives should be done in consultation with the advisor. In addition, the symbolic logic course, PHL 302, is a recommended Common Academic Program course for all mathematics majors.

A minor in mathematics consists of 12 semester hours (300-400 level).

A minor in actuarial science is offered through the Department of Mathematics. This consists of courses in calculus, statistics, theory of interest, economics, and finance, and is designed to prepare the student to take the actuarial examinations in probability and financial mathematics.

Faculty

Wiebke Diestelkamp, Chairperson

Distinguished Service Professor: Peterson
 Professors Emeriti: Back, Friel, Gantner, Gorton, Kauflin, McCloskey, Mushenheim, Rice, Schleppe, Shaughnessy, R. Steinlage, Strange
 Professors: Abueida, Diestelkamp, Driskell, Elo, Higgins, Islam, Liu, Mashburn, Raffoul
 Associate Professors: Busch, Hovey, Krakowski, Qumsiyeh, Usman, Yengulalp
 Assistant Professors: Brown, Kublik, Larrain-Hubach, Ren, Veliz-Cuba
 Lecturers: Harrison, Ober, Saintignon, Simon

Bachelor of Arts, Mathematics (MTH) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements 34

MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 308	Foundations & Discrete Mathematics	3
MTH 310	Linear Algebra & Matrices	3
MTH 330	Intermediate Analysis	3
MTH 361	Introduction to Abstract Algebra	3
MTH 411	Probability & Statistics I	3
MTH 480	Mathematics Capstone (Satisfies CAP Major Capstone)	1
	Select two MTH courses (300/400 level)	6

Breadth

ASI 150	Introduction to the University Experience	1
	Total Hours to total at least	124

Bachelor of Science, Applied Mathematical Economics (MTE) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

Satisfies CAP Natural Science		
CPS 150	Algorithms & Programming I	4
CPS 151	Algorithms & Programming II	4
Select one natural sciences group from:		8
BIO 151 & 151L & BIO 152 & BIO 152L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology and Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	
CHM 123 & 123L & CHM 124 & CHM 124L	General Chemistry and General Chemistry Laboratory and General Chemistry and General Chemistry Laboratory	
GEO 115 & 115L & GEO 116 & GEO 116L	Physical Geology and Physical Geology Laboratory and Geological History of the Earth and Geological History of the Earth Laboratory	
PHY 206 & PHY 207 & PHY 210L & PHY 211L	General Physics I - Mechanics and General Physics II - Electricity & Magnetism and General Physics Laboratory I and General Physics Laboratory II	

Major Requirements 46

Mathematics		
MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 308	Foundations & Discrete Mathematics	3
MTH 310	Linear Algebra & Matrices	3
MTH 330	Intermediate Analysis	3
MTH 411	Probability & Statistics I	3
MTH 412	Probability & Statistics II	3
MTH 480	Mathematics Capstone (Satisfies CAP Major Capstone)	1
Economics		
ECO 203	Principles of Microeconomics (Satisfies CAP Crossing Boundaries: Inquiry)	3
ECO 204	Principles of Macroeconomics (Satisfies CAP Crossing Boundaries: Inquiry)	3
ECO 346	Intermediate Microeconomic Analysis	3
ECO 347	Intermediate Macroeconomic Analysis	3
ECO 441	Econometrics	3
Select one ECO course (300/400 level)		3
Breadth		
ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

Bachelor of Science, Mathematics (MTH) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3
¹ Completed with ASI 110 and ASI 120.		
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.		
³ Completed with ENG 200H or ASI 120.		
⁴ Must include two different disciplines and accompanying lab.		

Science Breadth Requirements

Computer Science (CPS 150 applies to CAP Natural Sciences)			3-4
CPS 132	Computer Programming for Engineering & Science		
or CPS 150	Algorithms & Programming I		
Select one natural sciences group from: (Applies to CAP Natural Science)			8
BIO 151 & 151L & BIO 152 & BIO 152L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology and Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology		
CHM 123 & 123L & CHM 124 & CHM 124L	General Chemistry and General Chemistry Laboratory and General Chemistry and General Chemistry Laboratory		

GEO 115 & 115L & GEO 116 & GEO 116L	Physical Geology and Physical Geology Laboratory and Geological History of the Earth and Geological History of the Earth Laboratory	
PHY 206 & PHY 207 & PHY 210L & PHY 211L	General Physics I - Mechanics and General Physics II - Electricity & Magnetism and General Physics Laboratory I and General Physics Laboratory II	
Select two courses acceptable for science majors		6

Major Requirements		43
MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 219	Applied Differential Equations	3
MTH 308	Foundations & Discrete Mathematics	3
MTH 310	Linear Algebra & Matrices	3
MTH 330	Intermediate Analysis	3
MTH 361	Introduction to Abstract Algebra	3
MTH 430	Real Analysis	3
MTH 480	Mathematics Capstone (Satisfies CAP Major Capstone)	1
Select four MTH courses (300/400 level) ¹		12

Breadth		
ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences (Includes CAP Social Science)		6
Total Hours to total at least		120

¹ Departmental approval required.

Minor in Actuarial Science (ACS)

The Minor in Actuarial Science is designed to prepare students to pass the P and FM actuarial tests. It is also designed to supply students with VEE (Validation by Educational Experience) credit in economics, corporate finance, and applied statistics.

The minor contains eight courses in mathematics for a total of 22 semester hours. One of these is a course in the theory of interest and one is a seminar which prepares students to take the P test. Mathematics majors will take all but two of the mathematics requirements for the minor as part of their major requirements.

The minor also contains eight courses in accounting, economics, and finance for a total of twenty-four semester hours. Economics and finance majors will take all of these courses as part of their major requirements. They will be able to substitute two of the mathematics courses for those that they are required to take for their major.

A total of 46 semester hours are required for the minor.

Actuarial Science

ACC 207	Introduction to Financial Accounting	3
ECO 203	Principles of Microeconomics ¹	3
ECO 204	Principles of Macroeconomics ¹	3
ECO 410	Bus&Eco Forecasting ²	3
FIN 301	Introduction to Financial Management ³	3

FIN 360	Investments	3
FIN 470	Fixed Income Securities	3
FIN 480	Options & Futures Markets	3
MTH 168	Analytic Geometry & Calculus I	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 229	Theory of Interest	3
MTH 328	Actuarial Probability Seminar	1
MTH 411	Probability & Statistics I	3
MTH 412	Probability & Statistics II	3
Total Hours		46

- ¹ ECO 203 and ECO 204 together qualify for VEE Economics credit in Economics.
- ² VEE credit in Applied Statistics.
- ³ This course counts as VEE credit in Corporate Finance.

Minor in Mathematics (MTH)

Mathematics		
Select four MTH courses (300/400 level)		12
Total Hours		12
<ul style="list-style-type: none"> • Bachelor of Arts, Mathematics • Bachelor of Science, Applied Mathematical Economics • Bachelor of Science, Mathematics 		

Bachelor of Arts, Mathematics

First Year		
Fall	Hours Spring	Hours
ASI 150	1 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)	4 CAP Natural Science w/ lab	4
CAP Natural Science w/lab	4 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 Social Science - intro level	3
		15
17		
Second Year		
Fall	Hours Spring	Hours
MTH 218	4 MTH 310	3
MTH 308	3 SSC 200 (CAP Social Science)	3
CMM 100 (CAP Communication)	3 CAP Arts / Creative and Performing	3
ENG 200 (CAP Writing Seminar)	3 Literature	3
Natural Science	3 Language 101	4
		16
		16

Third Year		
Fall	Hours Spring	Hours
MTH 411	3 MTH 361	3
MTH elective	3 MTH elective	3
Social Science - elective	3 CAP Inquiry	3
CAP Faith Traditions	3 CAP Integrative	3
Language 141	4 Language 201 or contextual course	3
		15

Fourth Year		
Fall	Hours Spring	Hours
MTH 330	3 MTH 480 (Satisfies CAP Major Capstone)	1
Social Science - 300/400 level	3 MTH elective	3
CAP Advanced Philosophy/Religious Studies	3 CAP Advanced Philosophy/Religious Studies	3
CAP Advanced Historical Studies	3 CAP Diversity and Social Justice	3
CAP Practical Ethical Action	3 General Elective	4
		14

Total credit hours: 124

Bachelor of Science, Applied Mathematical Economics

First Year		
Fall	Hours Spring	Hours
ASI 150	1 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)	4 ECO 204	3
ECO 203	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
CAP Natural Science w/lab	4 CAP Natural Science w/lab	4
		15

Second Year		
Fall	Hours Spring	Hours
MTH 218	4 MTH 310	3
MTH 308	3 ECO 347	3
ECO 346	3 CMM 100 (CAP Communication)	3
ENG 200 (CAP Writing Seminar)	3 SSC 200 (CAP Social Science)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 CAP Faith Traditions	3
		16

Third Year		
Fall	Hours Spring	Hours
MTH 411	3 MTH 412	3
CPS 150	4 CPS 151	4
CAP Arts	3 CAP Integrative	3
CAP Inquiry	3 CAP Practical Ethical Action	3
CAP Advanced Philosophy/Religious Studies	3 General Elective	3
		16

Fourth Year		
Fall	Hours Spring	Hours
MTH 330	3 MTH 480 (Satisfies CAP Major Capstone)	1
ECO 441	3 ECO elective	3
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
CAP Advanced Historical Studies	3 General Elective (optional)	3
General Elective	1 General Elective (optional)	3
General Elective	3	
		13

Total credit hours: 124

Bachelor of Science, Mathematics

First Year		
Fall	Hours Spring	Hours
ASI 150	1 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)	4 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3 CAP Natural Science w/lab	4
CAP Natural Science w/lab	4 Social Science - elective	3
		15

Second Year		
Fall	Hours Spring	Hours
MTH 218	4 MTH 219	3
MTH 308	3 Natural Science	3
ENG 200 (CAP Writing Seminar)	3 MTH 310	3
CMM 100 (CAP Communication)	3 SSC 200 (CAP Social Science)	3
Natural Science	3 CAP Arts	3
		16

Third Year		
Fall	Hours Spring	Hours
MTH 330	3 MTH 361	3

MTH elective	3 MTH elective	3
CPS 132 or 150	3-4 CAP Inquiry	3
CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3 CAP Integrative	3
Minor elective	3 Minor elective	3
15-16		15
Fourth Year		
Fall	Hours Spring	Hours
MTH 430	3 MTH 480 (Satisfies CAP Major Capstone)	1
MTH elective	3 MTH elective	3
CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3 CAP Advanced Historical Studies	3
Minor elective	3 CAP Diversity and Social Justice	3
Minor elective	3 Minor elective	3
15		13

Total credit hours: 121-122

Courses

MTH 102. Fundamentals of Math. 3 Hours

Sets, functions and graphs, exponents, polynomials and algebraic equations, systems of equations. Prerequisite(s): One year of high school algebra.

MTH 114. Contemporary Mathematics. 3 Hours

Study of contemporary mathematical topics and their applications. Topics may include management science, statistics, social choice, size and shape, and computer mathematics. Prerequisite(s): Two years of high school algebra.

MTH 116. Precalculus Math. 4 Hours

Review of topics from algebra and trigonometry including polynomials, functions and graphs, exponential and logarithmic functions, trigonometric functions and identities. Prerequisite(s): Two years of high school algebra.

MTH 128. Finite Mathematics. 3 Hours

Topics from mathematics used in business including systems of equations, inequalities, matrix algebra, linear programming and logarithms; applications to compound interest, annuities and other finance problems. Prerequisite(s): MTH 102 or sufficient college preparatory mathematics.

MTH 129. Calculus for Business. 3 Hours

Topics from differential and integral calculus used in business; applications to optimizing financial functions, marginal functions in economics, and consumer or producer surplus. Prerequisite(s): MTH 128 or sufficient college preparatory mathematics.

MTH 137. Calculus I with Review. 4 Hours

Introduction to the differential and integral calculus with an extensive review of algebra and trigonometry; differentiation and integration of algebraic and transcendental functions with applications. Prerequisite(s): Two years of high school algebra.

MTH 138. Calculus I with Review. 4 Hours

Introduction to the differential and integral calculus with an extensive review of algebra and trigonometry; differentiation and integration of algebraic and transcendental functions with applications. Prerequisite(s): MTH 137.

MTH 148. Introductory Calculus I. 3 Hours

Introduction to the differential and integral calculus; differentiation and integration of algebraic and transcendental functions with applications to the life and social sciences. Prerequisite(s): MTH 116 or equivalent.

MTH 149. Introductory Calculus II. 3 Hours

Continuation of MTH 148. Multivariable calculus, matrices, difference equations, probability, discrete and continuous random variables, and differential equations with applications to the life and social sciences. Prerequisite(s): MTH 138 or MTH 148.

MTH 168. Analytic Geometry & Calculus I. 4 Hours

Introduction to the differential and integral calculus; differentiation and integration of algebraic and transcendental functions with applications to science and engineering. Prerequisite(s): MTH 116 or equivalent.

MTH 169. Analytic Geometry & Calculus II. 4 Hours

Continuation of MTH 168. Conic sections, techniques of integration with applications to science and engineering, infinite series, indeterminate forms, Taylor's theorem. Prerequisite(s): MTH 138 or MTH 168.

MTH 204. Mathematical Concepts I. 3 Hours

First course of a two-semester sequence designed for pre-service teachers. Concepts necessary for an understanding of the structure of arithmetic and its algorithms, number patterns, sets, problem solving, percent, relation and proportion, use of calculators. Prerequisite(s): One year of high school algebra; one year of high school geometry.

MTH 205. Mathematical Concepts II. 3 Hours

Continuation of MTH 204- a two semester sequence designed for pre-service teachers. Topics include probability, representing and interpreting data, the metric system, elementary geometry, geometric patterns, coordinate geometry, algebra and geometry, transformations, computer literacy. Prerequisite(s): MTH 204.

MTH 207. Introduction to Statistics. 3 Hours

Introduction to the concepts of statistical thinking for students whose majors do not require calculus. Methods of presenting data, including graphical methods. Using data to make decisions and draw conclusions. Basic ideas of drawing a sample and interpreting the information that it contains. Prerequisite(s): Two years of high school algebra.

MTH 214. Mathematical Concepts for Middle School Teachers. 3 Hours

Concepts necessary for an understanding of the arithmetic taught in both elementary and middle grades. Includes a study of the structure of arithmetic and its algorithms; problem solving; reasoning and proof; proportional reasoning; use of computers and calculators to solve problems. Prerequisite(s): Two years of high school algebra.

MTH 215. Algebra, Functions & Graphs. 3 Hours

Development of the algebra of various families of functions including polynomial, exponential, logarithmic, and trigonometric functions; factoring and roots; interpretation of graphs; use of calculators and data collection devices to solve problems. Prerequisite(s): MTH 214.

MTH 216. Calculus Concepts & Applications. 3 Hours

Develop conceptual understanding of basic calculus concepts; introduction to the notion of limit; rates of change; slopes and area computations; use of calculators and data collection devices to make predictions, estimations, and solve problems. Prerequisite(s): MTH 215.

MTH 218. Analytic Geometry & Calculus III. 4 Hours

Continuation of MTH 169. Solid analytic geometry, vectors and vector functions, multivariable calculus, partial derivatives, multiple integrals. Prerequisite(s): MTH 169.

MTH 219. Applied Differential Equations. 3 Hours

First order equations, linear equations with constant coefficients, systems of equations, the Laplace transform, numerical methods, applications. Prerequisite(s): MTH 218.

MTH 229. Theory of Interest. 3 Hours

Rigorous, calculus-based treatment of the Theory of Interest. Topics covered include interest, compounding, discounting, annuities, sinking funds, amortization, bonds, yield rates, and applications of these ideas and processes to problems in finance. Prerequisite(s): MTH 169.

MTH 250. Advanced Technical Mathematics. 3 Hours

Appropriate analytical techniques for students of engineering technology; topics include integration by parts, multivariable calculus, complex numbers, matrices and system of linear equations, and first and second order differential equations. Applications are appropriate for the engineering technology programs (circuits, vibrations, and heat transfer). Prerequisite(s): MTH 138 or MTH 168.

MTH 266. Discrete & Finite Mathematics for Middle School Teachers. 3 Hours

Topics in finite and discrete mathematics; linear programming; applications in finance; graph theory; mathematics of social choice; logic; use of computers and calculators to model and solve problems. Prerequisite(s): MTH 214.

MTH 270. Geometry Concepts & Applications. 3 Hours

Introduction to the geometry of two- and three-dimensional space; patterns in geometry; measurement systems; transformations and similarity; coordinate geometry; the algebra of geometry; trigonometry; use of dynamic computer software to explore geometric concepts. Prerequisite(s): MTH 214.

MTH 290. Topics in Mathematics. 1-3 Hours

Exploration of varying topics appropriate for the needs of the pre-service training of teachers of mathematics. May be repeated as topics change. Prerequisite(s): One mathematics course beyond MTH 102; permission of department chairperson and/or instructor.

MTH 295. Historical Roots of Elementary Mathematics. 3 Hours

Fundamental historical development of modern arithmetic, algebra, geometry, and number systems from early Egyptian, Babylonian, and Greek sources. Students may not receive credit for both this course and MTH 395. Prerequisite(s): MTH 214.

MTH 301. Matrix Theory and Applications. 3 Hours

Investigation of systems of linear equations and matrices. Matrix operations, inverse matrix, partitioned matrices, matrix factorizations. Vector space and subspace of \mathbb{R}^n . Null and Column spaces of matrices. Eigenvalues and eigenspaces of matrices. Orthogonal vectors, Least-Squares problems, Diagonalization, Quadratic forms, Singular value decompositions. Applications such as Markov chains, computer graphics, electric circuits, and image processing. Mathematics majors should take MTH 310 rather than MTH 301. Students cannot receive credit for both MTH 301 and MTH 310. Prerequisite(s): MTH 218.

MTH 302. Elementary Diff: EQ. 4 Hours**MTH 308. Foundations & Discrete Mathematics. 3 Hours**

An introduction to proof using topics in foundational and discrete mathematics; propositional logic; number theory; sequences and recursion; set theory; relations; combinatorics; linear programming. Prerequisite(s): MTH 169.

MTH 310. Linear Algebra & Matrices. 3 Hours

Fundamental concepts of vector spaces, determinants, linear transformations, matrices, inner product spaces, and eigen-vectors. Offered each term. Students cannot receive credit for both MTH 301 and MTH 310. Prerequisite(s): MTH 218, MTH 308.

MTH 328. Actuarial Probability Seminar. 1 Hour

Problem solving seminar to develop and improve skills in applied probability. This seminar will focus on actuarial applications of probability theory. Prerequisite(s): MTH 411.

MTH 329. Actuarial Finance Seminar. 1 Hour

Problem solving seminar to develop and improve skills in applied mathematical finance. This seminar will focus on integrating the mathematical presentation of the Theory of Interest to the field of finance. Prerequisite(s): FIN 470; MTH 229.

MTH 330. Intermediate Analysis. 3 Hours

Theoretical development of the calculus of a real-valued function of a real variable. Topics include the algebraic and topological properties of the real line, limits of sequences and functions, continuity, differentiability, and integration. Prerequisite(s): MTH 310.

MTH 342. Set Theory. 3 Hours

Elementary set theory including relations, functions, indexed families, denumerable and nondenumerable sets, cardinal and ordinal arithmetic, Zorn's Lemma, the well-ordering principle and transfinite induction. Prerequisite(s): MTH 218, MTH 308.

MTH 343. Mathematics for Electrical & Computer Engineers. 3 Hours

Linear algebra and matrices, complex variables, mathematical transforms and their inter-relations. Focus on mathematical theories as well as applications and an extensive use of MATLAB. Prerequisite(s): MTH 219.

MTH 361. Introduction to Abstract Algebra. 3 Hours

Fundamental concepts of groups, rings, integral domains and fields. Prerequisite(s): MTH 218, MTH 308.

MTH 367. Statistical Methods I. 3 Hours

Probability distributions including binomial, hypergeometric, Poisson, and normal. Estimation of population mean and standard deviation: Confidence intervals and tests of hypotheses using t , Chi-square, and F -statistics. Mathematics majors enroll in MTH 411 instead of MTH 367. Prerequisite(s): MTH 149 or MTH 169.

MTH 368. Statistical Methods II. 3 Hours

Distribution-free methods including rank tests, sign tests, and Kolmogorov-Smirnov test. Method of least squares, correlation, linear regression, analysis of variance. Design of experiments and computer applications. Mathematics majors enroll in MTH 412 instead of 368. Prerequisite(s): MTH 367.

MTH 370. Introduction to Higher Geometry. 3 Hours

Projective, affine, and hyperbolic geometries using synthetic and/or analytic techniques. Prerequisite(s): MTH 218, MTH 308.

MTH 376. Number Theory. 3 Hours

Topics include Diophantine equations, Chinese Remainder theorem, Mobius inversion formula, quadratic residues and the Law of Quadratic Reciprocity, Gaussian integers, and integral quaternions. Prerequisite(s): MTH 218, MTH 308.

MTH 395. Development of Mathematical Ideas. 3 Hours

The evolution of mathematical ideas and techniques from ancient times to the present with emphasis on the Greek era. Famous people and famous problems. Chronological outline of mathematics in each of its branches along with applications. Prerequisite(s): MTH 218, MTH 308.

MTH 403. Boundary Value Problems. 3 Hours

Introduction to the Sturm-Liouville problem. Fourier trigonometric series, Fourier integrals, Bessel functions, and Legendre polynomials. The heat equation, wave equation, and Laplace's equation with applications. Solutions by the product method. Prerequisite(s): MTH 219, MTH 310.

MTH 404. Complex Variables. 3 Hours

Functions of a complex variable, conformal mapping, integration in the complex plane. Laurent series and residue theory. Prerequisite(s): MTH 219.

MTH 411. Probability & Statistics I. 3 Hours

Mathematical probability, random variables, Bayes' Theorem, Chebyshev's Inequality, Binomial, Poisson, and Normal probability laws, moment generating functions, limit theorems, descriptive statistics, large sample statistical inference. MTH 308 is recommended as preparation for this course. Prerequisite(s): MTH 218.

MTH 412. Probability & Statistics II. 3 Hours

Multivariate distributions, transformations of random variables, sampling distribution theory, estimation of parameters including maximum likelihood, confidence intervals, the Neyman-Pearson lemma, tests of hypotheses, likelihood ratio tests. Prerequisite(s): MTH 411.

MTH 430. Real Analysis. 3 Hours

Continuation of MTH 330. Topics include the theory of convergence of sequences and series of functions in the context of metric spaces, uniform continuity, uniform convergence, and integration. Prerequisite(s): MTH 330.

MTH 435. Advanced Multivariate Calculus. 3 Hours

Topics include directional derivatives, chain rule, Lagrange multipliers, Taylor's formula, the mean value theorem, inverse mapping theorem, implicit function theorem, integration, Fubini's theorem, change of variables, line integrals, Green's theorem and Stoke's theorem. Prerequisite(s): MTH 310.

MTH 440. Introduction to Mathematical Modeling. 3 Hours

Introduction to the use of mathematical techniques and results in constructing and modifying models designed to solve problems encountered in everyday life. Computer simulation and limitations thereof, dimensional analysis, scaling and approximations at various levels are discussed. Prerequisite(s): MTH 219, MTH 310.

MTH 441. Mathematics Clinic. 1 Hour

Student teams will be responsible for the development and/or modification and testing of a mathematical model designed for a particular purpose. Faculty guidance. Prerequisite(s): MTH 440; permission of department chairperson.

MTH 445. Special Topics in Mathematics. 1-3 Hours

Lectures in specialized areas such as abstract algebra, applied mathematics, complex variables, differential forms, functional analysis, Galois theory, game theory, general topology, normed linear spaces, probability theory, real variables, topological groups. May be taken more than once. Prerequisite(s): Permission of department chairperson.

MTH 458. Mathematical Models in Finance. 3 Hours

Mathematical models in finance which include discrete and continuous models for stock price, interest rate model, bond pricing model, and option pricing model. Quantitative methods are introduced and employed. The methods include Black-Scholes formula, Monte-Carlo simulation, and binomial tree. Markowitz's optimal portfolio selection method is introduced and employed. Prerequisite(s): MTH 310.

MTH 465. Linear Algebra. 3 Hours

Vector spaces, linear transformations and matrices, determinants, inner product spaces, invariant direct-sum decomposition and the Jordan canonical form. Prerequisite(s): MTH 310.

MTH 466. Graph Theory & Combinatorics. 3 Hours

Graphs as algebraic structures; Eulerian, Hamiltonian, complete, connected and planar graphs. Applications include scheduling and routing problems. Discussion of algorithms for optimal or near-optimal solutions. Combinatorial topics could include generating functions, recurrence relations, Polya's theorem and Ramsey Theory. Prerequisite(s): MTH 308 or MTH 310.

MTH 467. Combinatorial Design Theory. 3 Hours

Topic include discussion of Latin squares, mutually orthogonal Latin squares, orthogonal and perpendicular arrays, Steiner triple systems, block designs, difference sets, and finite geometries. Prerequisite(s): MTH 308.

MTH 471. Topology. 3 Hours

Introduction to topological spaces and continuous functions including a study of separation and countability axioms and elementary properties of metric spaces, connected spaces, and compact spaces. Prerequisite(s): MTH 308.

MTH 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MTH 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

MTH 480. Mathematics Capstone. 1 Hour

Students will prepare a presentation or a paper appropriate for a general audience on an advanced mathematical topic that builds on the foundation laid by previous mathematics courses. This course fulfills the Major Capstone component of the Common Academic Program for MTA, MTH and MTE majors. Junior or senior standing. Prerequisite(s): MTH 308.

MTH 490. Readings in Mathematics. 1-3 Hours

Individual study in specialized areas carried out under the supervision of a staff member. May be taken more than once. Prerequisite(s): Permission of department chairperson.

Military Science ROTC

The Department of Military Science offers the Reserve Officers Training Corps (ROTC) program on the campus, providing instruction in general military subjects applicable to all branches of the Army. The purpose of the Reserve Officers Training Corps is to develop selected college-

educated men and women for positions of responsibility as officers in the active Army, the Army Reserve, and the Army National Guard.

The military science program is designed to develop a high degree of personal honor, self-reliance, and leadership and to provide the means of becoming better informed on matters of national defense. The program provides men and women who are working toward a baccalaureate degree the opportunity to become officers in the United States Army.

The four-year program is divided into a basic course¹ (normally first and second years) and an advanced course (normally third and fourth years), and it is offered to all students for academic credit. The advanced course classes require permission of the Professor of Military Science for non-cadets and is restricted to classroom activities only.

The basic course emphasizes practical leadership techniques and management concepts that apply equally in both military organizations and private industry. While in this phase of the program, students, other than contracted ROTC scholarship students, have no military obligation and are simply taking ROTC courses, like any other college courses, for credit. Students who receive credit for the basic course and demonstrate a potential for becoming effective officers may continue to pursue a commission by enrolling in the advanced course.

The advanced course is designed to prepare students to be Army lieutenants by including practical work in tactics, training, management, leadership techniques, and the exercise of command. Advanced course students are paid \$450 (juniors) and \$500 (seniors) a month during the school year. During the summer between the junior and senior years, cadets enroll in a thirty day Cadet Leadership Course (CLC), which allows them to apply the leadership and technical training learned in the classroom. While at CLC, students are paid half a second lieutenant's monthly salary or about \$1200.

In addition to ROTC instruction, a student must attain an equal level of professional military education. Army officers, like other professionals, cannot be satisfied with a collection of knowledge found only in their academic field. In order to be prepared to become officers, students are required to complete a course in military history.

The minor in military science provides students with the opportunity to study the theory and practice of the military profession. The minor consists of twelve semester hours of upper-level courses.

Students desiring to minor in military science should notify their respective deans and the Department of Military Science.

The ROTC program is also available to students with three or two years remaining on campus, including graduate students. Special programs, such as ROTC summer Cadet Initial Entry Training (CIET), have been established to allow second-semester sophomores and juniors or seniors who will be going on to graduate school (Lateral Entry cadets) to participate in the military science program. This training is currently being expanded and will include all committed cadets either between the first year and second year, or between the second year and third year, as well as the Lateral Entry cadets mentioned above.

There are optional paid summer opportunities for contracted and/or committed cadets to attend a four week Cultural Understanding and Language Program (CULP) to certain countries in South America, Africa, Eastern Europe, and Asia. Also following the Cadet Leadership Course (CLC) cadets can attend a Cadet Training Leadership Training (CTLT) for three weeks at an active duty military installation and work with a second lieutenant on active duty, or possibly a four week CTKT in Korea or Europe. Other optional training includes a three week Airborne training

at Ft. Benning, GA, or a ten day Air Assault School at several different installations in the United States.

There is also a special program whereby veterans and JROTC students can receive advanced placement credit in Army ROTC. Veterans and students with high school JROTC training, with the approval of the chairperson of the Department of Military Science, may receive placement credit for part or all of the basic course. Each case will be judged individually so that the best interests of both the student and the military may be served.

Army ROTC scholarships are available to students. These scholarships cover four, three, and two-year periods and provide for full tuition and charges, \$1200 a year for books, and a tax-free subsistence allowance of \$300 a month for first year cadets, \$350 a month for sophomore cadets, \$450 a month during the junior year, and \$500 a month in the senior year for up to ten months. Scholarships, which are highly competitive, are awarded to those who demonstrate outstanding scholarly, athletic, and leadership ability.

¹ At Sinclair Community College.

MIL 122, MIL 123

Complete UD requirements for:

MIL 101	Military Leadership I
MIL 102	Leadership II

MIL 222, MIL 223

Complete UD requirements for:

MIL 201	Map Reading & Small Unit Tactics
MIL 202	Military Leadership

Faculty

MAJ Jeffrey Rosenberg, U.S. Army, Chairperson

Professor: Rosenberg,

Assistant Professor: Robinson

Instructors: Baker, Bingley, Gates, Quade

Minor in Military Science (MIL)

Military Science, ROTC

MIL 301	Leading Small Organizations I	3
MIL 302	Leading Small Organizations II	3
MIL 401	Leadership Management & Staff	3
MIL 402	Applied Leadership & Management	3
Total Hours		12

Courses

MIL 101. Military Leadership I. 1 Hour

ROTC programs and opportunities; rappelling, leadership, communications and management skills, and rifle marksmanship. Optional field trips, field exercises, physical training, leadership laboratory and social events.

MIL 102. Leadership II. 1 Hour

Rifle marksmanship, fundamentals and principles of leadership, management techniques for individual, group behavior and leadership dimensions. Optional physical training, leadership laboratory, and social events.

MIL 201. Map Reading & Small Unit Tactics. 2 Hours

Study of basic map reading skills, small unit tactics, movement techniques, weapons marksmanship orientation, and survival skills. Participation in leadership laboratory and two field training exercises. Optional physical training and social events.

MIL 202. Military Leadership. 2 Hours

Interactive study of the fundamentals of military leadership, ethical decision-making, effective counseling techniques, and conflict resolution. Study of the role and branches of the US Army and the role of the commissioned, warrant, and noncommissioned officer. Optional participation in leadership laboratories, field training exercises, physical fitness training, and social events.

MIL 299. Military Science Leadership Lab. 0 Hours

This is an academically challenging course where you will study, practice, and apply the fundamentals of the Leadership, Officer Skills, Army Values and Ethics, Personal Development, and Tactics at the small unit level. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, and practical exercises.

MIL 301. Leading Small Organizations I. 3 Hours

Study of the methodology, qualities, and the development of leaders through a series of practical opportunities to lead small groups, receive personal assessments, encouragement, and lead again in situations of increasing complexity. Physical training, leadership laboratory, historical field trip, social events, and field training exercises are mandatory.

MIL 302. Leading Small Organizations II. 3 Hours

Study of emplacement of communications equipment and weapons system. Application of small unit tactics, land navigation-terrain association, operations orders and roles of various branches of the Army. Physical training, leadership laboratory, social events, and field training exercises are mandatory.

MIL 401. Leadership Management & Staff. 3 Hours

Study of military staff functions; how to conduct meetings, briefing, and training; how to conduct various types of counseling; and effective and ineffective leadership techniques. Physical training, leadership laboratory, historical field trip, social events, and field training exercises are mandatory.

MIL 402. Applied Leadership & Management. 3 Hours

Leadership and management studies in professionalism, ethics, and military justice. Various types of military correspondence and the responsibilities of an officer. Physical training, leadership laboratory, field training exercises, and social events are mandatory.

MIL 411. Limited War/Low Intensity Conflict. 2 Hours

This course will identify and discuss the roles and mission of the branches found within the U.S. Army as they relate to limited war and low intensity conflicts. Historical examples of leadership in limited war/low intensity conflicts are identified and discussed. Incorporates the background and experience of resident instructors and presentations by visiting service representatives.

MIL 412. United States Military Today. 2 Hours

This course will identify and discuss the roles, missions, organizational structure and equipment, tactical and strategic employment, and future trends of the Armed Services. Incorporates the background and experience of resident instructors and presentations by visiting service representatives.

MIL 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MIL 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MIL 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved MIL 477 and approval of University Honors Program.

MIL 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved MIL 477 and approval of University Honors Program.

Music

Majors:

- Bachelor of Arts, Music-Ethnomusicology Concentration (p. 218)
- Bachelor of Arts, Music-Jazz Studies Concentration (p. 219)
- Bachelor of Arts, Music-Music Studies Concentration (p. 220)
- Bachelor of Music, Music Composition (p. 221)
- Bachelor of Music, Music Education-Instrumental Concentration (p. 222)
- Bachelor of Music, Music Education-Vocal Concentration (p. 223)
- Bachelor of Music, Music Performance (p. 225)
- Bachelor of Music, Music Therapy (p. 226)

Certificate:

- Church Music (p. 227)

Minor:

- Music (p. 227)

- Music Technology (p. 227)

Music is our passion. We help each student discover the transformative power of music and develop musical interests, talents, and skills that they will use to change the world. The Department's goals include:

- To help students develop their unique musical potential as performer, composer, scholar, teacher, therapist, listener or advocate
- To provide abundant and diverse opportunities for group and individualized music learning
- To connect students and faculty with local and global resources
- To develop musical partnerships that reflect the University's motto: Learn, Lead, and Serve
- To cultivate a safe, respectful, inter-culturally responsive, and stimulating environment that supports student and faculty development (*College of Arts and Sciences Diversity Vision Statement, October 2009*)
- To prepare students through music with essential 21st century skills to meet the changing needs of a global society

The Department of Music offers an outstanding and diverse undergraduate curriculum for music majors and non-music majors in a strong liberal arts setting. Faculty are engaged in the process of evaluating and revising existing courses and developing new ones to meet the general education requirements of the Common Academic Program (CAP) that is based on interdisciplinary content and teaching. Foundational ideas of the CAP include learner-centered teaching, education in the Catholic Marianist tradition, and integrative learning. The CAP student learning outcomes are based on UD's Habits of Inquiry, including scholarship, faith traditions, diversity, community, practical wisdom, critical evaluation of our times, and vocation.

The Department of Music is a member of the National Association of Schools of Music, which accredits its degree programs and curricula. In addition, the music education degree program is approved by the State of Ohio and the music therapy degree program by the American Music Therapy Association.

The Department of Music has numerous performing ensembles open to all students:

- University Chorale
- Choral Union
- Opera Workshop
- Ebony Heritage Singers
- World Music Choir
- Hands in Harmony Signing Choir
- University Orchestra
- Symphonic Wind Ensemble
- University Concert Band
- "Pride of Dayton" Marching Band
- Flyer Pep Band
- Percussion Ensemble
- Javanese Gamelan
- Early Music Ensemble
- Dayton Jazz Ensemble
- University Jazz Band
- Flyer Jazz Lab Band
- Winter Drum Line

- Chamber music groups
- Jazz Combo

The Department of Music offers five degree programs.

- Bachelor of Arts with a major in Music (MUS) - Concentration options in Ethnomusicology, Jazz Studies or Music Studies
- Bachelor of Music with a major in Music Composition (MUC)
- Bachelor of Music with a major in Music Education (MUE) - Concentration options in Instrumental or Vocal
- Bachelor of Music with a major in Music Performance (MUP)
- Bachelor of Music with a major in Music Therapy (MUT)

All prospective music students must be admitted to the University of Dayton by the Office of Admission and accepted through an audition process that includes:

1. Submission to the Department of Music two letters of recommendation from their high school music teachers and/or performance teachers
2. Successful completion of a performance audition in person. Specific information regarding audition requirements and dates is available by calling the department office or visiting the department website (<http://www.udayton.edu/artssciences/music>).

The Department of Music offers a minor in music, a minor in music technology for non-music majors, and a church music certificate for all students.

Transfer students pursuing a major in MUC, MUP, or MUT must complete at least 24 of the required semester hours in the Department of Music while in residence at the University of Dayton. Transfer students pursuing a major in MUE must complete at least 20 of the required semester hours in the Department of Music while in residence at the University of Dayton. Transfer students pursuing a music minor must complete at least 12 of the required semester hours in the Department of Music while in residence.

Faculty

Sharon Davis Gratto, Chairperson

Professors Emeriti: Chenoweth, Benedum, Sandness, Snyder

Professors: Cox, Gardstrom, Gratto, Hartley, Magnuson, Street

Associate Professors: MacLachlan, Morris, Reynolds

Assistant Professors: Daniel-Cox, Dorf, Hiller, Jones, Rush

Lecturers: Kim, Kizer

Artists-in-Residence: Arnow, Benjamin, Farris, Leslie, McCutcheon, Sievers, Wells

Bachelor of Arts, Music-Ethnomusicology Concentration (MUS) minimum 124 hours

The Bachelor of Arts with a major in Music (MUS) with a concentration in Ethnomusicology focuses on the diversity of the world's musical traditions. Students will participate in both the Western European classical music tradition (in private lessons and in choral or instrumental ensembles) and in musics from across the globe, including Black gospel, Javanese gamelan, American jazz and African choral singing. They will study European music theory in addition to transcription of unwritten musics. They will learn to analyze music in culture by studying anthropology as well, and will ultimately complete a minor in Anthropology. Students will conduct ethnographic fieldwork in order to become conversant with the essential research methods of ethnomusicology and anthropology, and during their senior year will

complete a capstone project based on their fieldwork. To take advantage of the diverse academic environment at the University of Dayton, students are encouraged to complete a second major within another discipline.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts, including Music (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences	12
ANT 150 Cultural Anthropology	
ANT 306 Culture & Power	
SOC 101 Principles of Sociology	
SOC 394 Popular Culture	

Major Requirements 45

MUS 200 Recital Attendance (7 semesters)	0
MUS 241 Keyboard Competency I	0

MUS 242 Keyboard Competency II	0
MUS 250 Second Year Review	0
MUS 481 Capstone Project & Presentation	1
Ensembles ¹	8-9
MUS 390 Ensembles	
MUS 491 University Orchestra	
or MUS 492 Symphonic Wind Ensemble	
or MUS 493 University Chorale	
Music History and Literature	9
MUS 301 Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)	
MUS 302 Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)	
MUS 303 Introduction to Musics of the World (Satisfies CAP Arts)	
Music Theory and Aural Skills	18
MUS 111 Theory of Music I	
MUS 112 Theory of Music II	
MUS 113 Aural Skills I	
MUS 114 Aural Skills II	
MUS 211 Theory of Music III	
MUS 212 Theory of Music IV	
MUS 213 Aural Skills III	
MUS 214 Aural Skills IV	
MUS 217 Listening & Transcription Skills	
Performance studies ²	8-9
MUS 399 Performance Studies	
or MUS 499 Performance Studies	

Breadth

ASI 150 Introduction to the University Experience	1
Supporting Social Science	9
ANT 352 Cultures of Latin America	
ANT 356 Cultures of Africa	
ANT 360 Making of Modern South Asia	
Academic electives to total at least	124

¹ Must include at least one semester of Ebony Heritage Singers (1), World Music Choir (.5), Gamelan (.5), Choral Union (1), Marching Band (1), and University Jazz Bands (1), for a total of 6 credits. Must also include two semesters of MUS 491 University Orchestra (1) or MUS 492 Symphonic Wind Ensemble (1) or MUS 493 University Chorale (1); MUS 390-level ensembles may be substituted for MUS 491, 492, or 493 if necessary, with the approval of the student's academic advisor.

² May include MUS 296-297 as needed.

Bachelor of Arts, Music-Jazz Studies Concentration (MUS) minimum 124 hours

The Bachelor of Arts (BA) with a concentration in Jazz Studies focuses on the musical and historical elements of jazz. Students will study:

- Jazz improvisation
- Jazz performance
- Jazz theory

- Jazz history
- Jazz composition and arranging.

Students also participate in both large and small jazz ensembles, which provide the opportunity to become skilled in the art of practice and performance of jazz. To take advantage of the diverse academic environment at the University of Dayton, students are encouraged to earn a minor or to complete a second major within another discipline.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
³ Completed with ENG 200H or ASI 120.
⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts, including MUS (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements

MUS 200 Recital Attendance (7 semesters)	0
MUS 241 Keyboard Competency I	0
MUS 242 Keyboard Competency II	0

MUS 250 Second Year Review	0
MUS 481 Capstone Project & Presentation	1
Ensembles	6-7
MUS 390 Ensembles ¹	
MUS 494 Dayton Jazz Ensemble	
Music History and Literature	9
(MUS 301 satisfies CAP Faith Traditions and Advanced Religious Studies; MUS 302 satisfies CAP Integrative and Advanced Historical Studies.)	
MUS 301 Music History & Literature I or MUS 302 Music History & Literature II	
MUS 303 Introduction to Musics of the World (Satisfies CAP Arts)	
MUS 306 History of American Jazz	
Music Theory and Aural Skills	14
MUS 111 Theory of Music I	
MUS 112 Theory of Music II	
MUS 113 Aural Skills I	
MUS 114 Aural Skills II	
MUS 211 Theory of Music III	
MUS 212 Theory of Music IV	
MUS 218 Popular Jazz Theory	
Jazz Performance studies	4
MUS 391 Jazz Improvisation I	
MUS 392 Jazz Improvisation II	
MUS 396 Jazz Keyboard Harmony I	
MUS 397 Jazz Keyboard Harmony II	
Performance studies ^{2,3}	10-11
MUS 399 Performance Studies or MUS 499 Performance Studies	

Breadth

ASI 150 Introduction to the University Experience	1
Total Hours to total at least	124

¹ Choose from any MUS 390. See course descriptions.
² May include MUS 296-297 as needed.
³ Must include MUS 391, 396, 397.

Bachelor of Arts, Music-Music Studies Concentration (MUS) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3

Social Science	3	MUS 114	Aural Skills II	
SSC 200	Social Science Integrated	MUS 211	Theory of Music III	
Arts	3	MUS 212	Theory of Music IV	
Natural Sciences ⁴	7	MUS 213	Aural Skills III	
Crossing Boundaries	variable credit	MUS 214	Aural Skills IV	
Faith Traditions		Performance studies ²		12-13
Practical Ethical Action		MUS 399	Performance Studies	
Inquiry		or MUS 499	Performance Studies	

Breadth

Advanced Study	variable credit	ASI 150	Introduction to the University Experience	1
Philosophy and/or Religious Studies		Total Hours to total at least		124
Historical Studies				

¹ Choose from any MUS 390. See course descriptions.

² May include MUS 296-299 as needed.

Diversity and Social Justice	3
Major Capstone	0-3

- ¹ Completed with ASI 110 and ASI 120.
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
³ Completed with ENG 200H or ASI 120.
⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts, including Music (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements 45

MUS 200	Recital Attendance (7 semesters)	0
MUS 240	Fundamentals of Conducting	2
MUS 241	Keyboard Competency I	0
MUS 242	Keyboard Competency II	0
MUS 250	Second Year Review	0
MUS 481	Capstone Project & Presentation	1
Ensembles		4-5
MUS 390	Ensembles ¹	
	or MUS 491 University Orchestra	
	or MUS 492 Symphonic Wind Ensemble	
	or MUS 493 University Chorale	
Music History and Literature		9
MUS 301	Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)	
MUS 302	Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)	
MUS 303	Introduction to Musics of the World (Satisfies CAP Arts)	
Music Theory and Aural Skills		16
MUS 111	Theory of Music I	
MUS 112	Theory of Music II	
MUS 113	Aural Skills I	

Bachelor of Music, Music Composition (MUC) minimum 137 hours**Common Academic Program (CAP)**

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
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HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	

Second-Year Writing Seminar ³	0-3
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ENG 200	Writing Seminar II	
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Oral Communication	3
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CMM 100	Principles of Oral Communication	
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Mathematics	3
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Social Science	3
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SSC 200	Social Science Integrated	
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Arts	3
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Natural Sciences ⁴	7
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Crossing Boundaries	variable credit
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Faith Traditions	
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Practical Ethical Action	
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Inquiry	
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Integrative	
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Advanced Study	variable credit
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Philosophy and/or Religious Studies	
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Historical Studies	
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Diversity and Social Justice	3
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Major Capstone	0-3
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¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

BM Requirements

Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
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Natural Sciences (Satisfies CAP Natural Science)	7
Social Sciences (Includes CAP Social Science)	6
Major Requirements	87
MUS 200 Recital Attendance (7 semesters)	0
MUS 202 Professional Development Workshop (7 semesters)	0
MUS 241 Keyboard Competency I	0
MUS 242 Keyboard Competency II	0
MUS 250 Second Year Review	0
MUS 314 Score Reading	2
MUS 450 Degree Recital (2 required. Satisfies CAP Major Capstone.)	0
Composition ¹	12
MUS 121 Composition I	
MUS 122 Composition I	
MUS 221 Composition II	
MUS 222 Composition II	
MUS 321 Composition III	
MUS 322 Composition III	
MUS 421 Composition IV	
MUS 422 Composition IV	
Conducting	4
MUS 240 Fundamentals of Conducting	
MUS 345 Choral Conducting or MUS 346 Instrumental Conducting	
Ensembles	8
MUS 491 University Orchestra ² or MUS 492 Symphonic Wind Ensemble or MUS 493 University Chorale	
Music History and Literature	9
MUS 301 Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)	
MUS 302 Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)	
MUS 303 Introduction to Musics of the World (Satisfies CAP Arts)	
Music Theory and Aural Skills	16
MUS 111 Theory of Music I	
MUS 112 Theory of Music II	
MUS 113 Aural Skills I	
MUS 114 Aural Skills II	
MUS 211 Theory of Music III	
MUS 212 Theory of Music IV	
MUS 213 Aural Skills III	
MUS 214 Aural Skills IV	
Orchestration or arranging	4
MUS 316 Fundamentals of Orchestration or MUS 318 Fundamentals of Arranging	
MUS 416 Advanced Orchestration	
Performance Studies ³	12
MUS 296 Functional Keyboard Skills I	
MUS 297 Functional Keyboard Skills II	

MUS 298 Functional Keyboard Skills III	
MUS 299 Functional Keyboard Skills IV	
MUS 399 Performance Studies or MUS 499 Performance Studies	
MUS electives	10
Theory and/or composition electives	10

Breadth

ASI 150 Introduction to the University Experience	1
Non-music electives	9
Total Hours to total at least	137

¹ Each composition major must present one and a half recitals of original work by the senior year.

² May substitute MUS 390 with permission.

³ Functional Keyboard Skills or equivalent is required.

Bachelor of Music, Music Education-Instrumental Concentration (MUE) minimum 139 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

BM Requirements

Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	7
Social Sciences (Includes CAP Social Science)	3

Major Requirements ¹

MUS 200	Recital Attendance (7 semesters)	0
MUS 202	Professional Development Workshop	0
MUS 231	Introduction to Music Education	2
MUS 240	Fundamentals of Conducting	2
MUS 241	Keyboard Competency I	0
MUS 242	Keyboard Competency II	0
MUS 250	Second Year Review	0
MUS 318	Fundamentals of Arranging	2
MUS 331	Choral Music Methods	3
MUS 332	Instrumental Music Methods	3
MUS 335	Classroom Music Methods	3
MUS 340	Music Education for Diverse Student Populations in Inclusive Settings	3

MUS 450 Degree Recital (Satisfies CAP Major Capstone) 0

Performance Studies (7 semesters) ² 14

MUS 399 Performance Studies

Ensembles 6

MUS 390 Ensembles (1 semester)

Select five semesters from:

MUS 491 University Orchestra
or MUS 492 Symphonic Wind Ensemble
or MUS 493 University Chorale

Music History and Literature 9

MUS 301 Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)

MUS 302 Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)

MUS 303 Introduction to Musics of the World (Satisfies CAP Arts)

Music Theory and Aural Skills 16

MUS 111 Theory of Music I

MUS 112 Theory of Music II

MUS 113 Aural Skills I

MUS 114 Aural Skills II

MUS 211 Theory of Music III

MUS 212 Theory of Music IV

MUS 213 Aural Skills III

MUS 214 Aural Skills IV

Additional Requirements for Instrumental Concentration ³

Ensembles 3

MUS 390 Ensembles (choral)

Small Ensembles (4 semesters, 0.5 semester hours each)

Music Education 9

MUS 195 Beginning Guitar Class I

MUS 236 Voice Laboratory

MUS 336 Woodwind Pedagogy (2 semesters)

MUS 337	Brass Pedagogy (2 semesters)
MUS 338	Percussion Pedagogy
MUS 339	String Pedagogy (2 semesters)
Select a minimum of 6 elective semester hours from: 6	
MUS 233	Eurhythmics
MUS 295	Beginning Guitar Class II
MUS 338	Percussion Pedagogy
MUS 345	Choral Conducting
MUS 346	Instrumental Conducting
MUS 381	Clinical & Educational Music Improvisation I
MUS 399	Performance Studies (may be repeated)
MUS 408	Diction & Literature for Singers
MUS 430	Jazz Pedagogy
MUS 431	Marching Band Pedagogy

Teacher Education 21

EDT 110	The Profession of Teaching
EDT 110L	The Profession of Teaching Laboratory
EDT 207	Child and Adolescent in Education
EDT 207L	Child and Adolescent in Education Laboratory
EDT 305	Philosophy and History of American Education (Satisfies CAP Practical Ethical Action, and Advanced Study in Philosophy)
EDT 479	Student Teaching- Music P-12

Breadth

ASI 150 Introduction to the University Experience 1

Total Hours to total at least 139

¹ Students in the music education program are required to maintain a 2.5 cumulative grade point average prior to taking EDT 110; ≥ 2.75 cumulative grade point average after completing EDT 110; and ≥ 3.0 after completing EDT 207. GPA in professional education (EDT) must be ≥ 2.75 after completing EDT 110; ≥ 3.0 after completing EDT 207. Students must earn a grade of a C- or higher in all EDT courses, and a grade of S in all EDT labs prior to entry into clinical experience. Students must earn a grade of C- or higher in the following core music education courses: MUS 331, MUS 332 and MUS 335; and a 2.5 cumulative grade point average in all music courses.

² On principal instrument.

³ Students will select one of two concentration areas (instrumental or vocal). Upon successful completion of the degree and the required Ohio Assessment for Educators exams, candidates will receive a Resident Educator License (Four Year, Multi-age, P-12) from the State of Ohio to teach music from pre-kindergarten through senior high school.

Bachelor of Music, Music Education-Vocal Concentration (MUE) minimum 139 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹ 12

HST 103	West and the World
REL 103	Introduction to Religious and Theological Studies
PHL 103	Intro To Philosophy
ENG 100	Writing Seminar I ²

Second-Year Writing Seminar ³	0-3	or MUS 492 Symphonic Wind Ensemble or MUS 493 University Chorale	
ENG 200 Writing Seminar II			
Oral Communication	3	Music History and Literature	9
CMM 100 Principles of Oral Communication		MUS 301 Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)	
Mathematics	3	MUS 302 Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)	
Social Science	3	MUS 303 Introduction to Musics of the World (Satisfies CAP Arts)	
SSC 200 Social Science Integrated		Music Theory and Aural Skills	16
Arts	3	MUS 111 Theory of Music I	
Natural Sciences ⁴	7	MUS 112 Theory of Music II	
Crossing Boundaries	variable credit	MUS 113 Aural Skills I	
Faith Traditions		MUS 114 Aural Skills II	
Practical Ethical Action		MUS 211 Theory of Music III	
Inquiry		MUS 212 Theory of Music IV	
Integrative		MUS 213 Aural Skills III	
Advanced Study	variable credit	MUS 214 Aural Skills IV	
Philosophy and/or Religious Studies		Additional requirements for Vocal Concentration³	
Historical Studies		MUS 408 Diction & Literature for Singers	2
Diversity and Social Justice	3	Ensembles	1
Major Capstone	0-3	MUS 390 Ensembles (instrumental)	
		Music Education	7
¹ Completed with ASI 110 and ASI 120.		MUS 195 Beginning Guitar Class I	
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.		MUS 295 Beginning Guitar Class II	
³ Completed with ENG 200H or ASI 120.		MUS 235 Voice Pedagogy	
⁴ Must include two different disciplines and accompanying lab.		or MUS 236 Voice Laboratory	
BM Requirements		MUS 237 Brass Instrument Laboratory	
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3	MUS 238 Woodwind Instrument Laboratory	
Natural Sciences (Satisfies CAP Natural Science)	7	MUS 338 Percussion Pedagogy	
Social Sciences (May include CAP Social Science)	3	MUS 339 String Pedagogy	
Major Requirements¹	80	Select a minimum of 8 elective semester hours from:	8
MUS 200 Recital Attendance (7 semesters)	0	MUS 233 Eurhythmics	
MUS 202 Professional Development Workshop (7 semesters)	0	MUS 338 Percussion Pedagogy	
MUS 231 Introduction to Music Education	2	MUS 345 Choral Conducting	
MUS 240 Fundamentals of Conducting	2	MUS 346 Instrumental Conducting	
MUS 241 Keyboard Competency I	0	MUS 381 Clinical & Educational Music Improvisation I	
MUS 242 Keyboard Competency II	0	MUS 399 Performance Studies (on secondary instrument, may be repeated)	
MUS 250 Second Year Review	0	MUS 408 Diction & Literature for Singers	
MUS 318 Fundamentals of Arranging	2	MUS 430 Jazz Pedagogy	
MUS 331 Choral Music Methods	3	MUS 431 Marching Band Pedagogy	
MUS 332 Instrumental Music Methods	3	Teacher Education	21
MUS 335 Classroom Music Methods	3	EDT 110 The Profession of Teaching	
MUS 340 Music Education for Diverse Student Populations in Inclusive Settings	3	EDT 110L The Profession of Teaching Laboratory	
MUS 450 Degree Recital (Satisfies CAP Major Capstone)	0	EDT 207 Child and Adolescent in Education	
Performance Studies (7 semesters) ²	14	EDT 207L Child and Adolescent in Education Laboratory	
MUS 399 Performance Studies (7 semesters) ²		EDT 305 Philosophy and History of American Education (Satisfies CAP Practical Ethical Action, and Advanced Study in Philosophy)	
Ensembles	6	EDT 479 Student Teaching- Music P-12	
MUS 390 Ensembles (1 semester)			
Select five semesters from:			
MUS 491 University Orchestra			
		Breadth	

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		139

¹ Students in the music education program are required to maintain a 2.5 cumulative grade point average prior to taking EDT 110; ≥ 2.75 cumulative grade point average after completing EDT 110; and ≥ 3.0 after completing EDT 207. GPA in professional education (EDT) must be ≥ 2.75 after completing EDT 110; ≥ 3.0 after completing EDT 207. Students must earn a grade of a C- or higher in all EDT courses, and a grade of S in all EDT labs prior to entry into clinical experience. Students must earn a grade of C- or higher in the following core music education courses: MUS 331, MUS 332 and MUS 335; and a 2.5 cumulative grade point average in all music courses.

² On principal instrument.

³ Students will select one of two concentration areas (instrumental or vocal). Upon successful completion of the degree and the required Ohio Assessment for Educators exams, candidates will receive a Resident Educator License (Four Year, Multi-age, P-12) from the State of Ohio to teach music from pre-kindergarten through senior high school.

Bachelor of Music, Music Performance (MUP) minimum 137 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

BM Requirements

Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	7
Social Sciences (Includes CAP Social Science)	6

Major Requirements

MUS 200	Recital Attendance (7 semesters)	0
MUS 202	Professional Development Workshop (7 semesters)	0
MUS 241	Keyboard Competency I	0
MUS 242	Keyboard Competency II	0
MUS 250	Second Year Review	0
MUS 450	Degree Recital (2 required. Satisfies CAP Major Capstone.)	0

Conducting

MUS 240	Fundamentals of Conducting	4
MUS 318	Fundamentals of Arranging	

Ensembles

MUS 491	University Orchestra	8
or MUS 492	Symphonic Wind Ensemble	
or MUS 493	University Chorale	

Music History and Literature

MUS 301	Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)	9
MUS 302	Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)	
MUS 303	Introduction to Musics of the World (Satisfies CAP Arts)	

Music Theory and Aural Skills

MUS 111	Theory of Music I	16
MUS 112	Theory of Music II	
MUS 113	Aural Skills I	
MUS 114	Aural Skills II	
MUS 211	Theory of Music III	
MUS 212	Theory of Music IV	
MUS 213	Aural Skills III	
MUS 214	Aural Skills IV	

Performance Studies ¹

Major area of specialization (24-32 hours)	36
Minor area of specialization (4-12 hours)	

MUS electives ²

MUS electives ²	14
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Breadth

ASI 150	Introduction to the University Experience	1
Non-music electives ³		3
Total Hours to total at least		137

¹ Performance study in major area must lead to a half junior solo recital and a full senior solo recital.

² Voice majors must take MUS 235 and MUS 408; piano majors must include MUS 405 and MUS 435; instrumental majors must take a pedagogy course in their area of specialization. Wind, string, brass and percussion majors should register for the appropriate pedagogy course in their area of performance (MUS 336-MUS 339). Majors are strongly urged to register for a Special Topics class with their performance instructor chosen to complement other performance studies.

³ Voice majors must include two semesters of foreign language study.

Bachelor of Music, Music Therapy (MUT) minimum 131 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variabl credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variabl credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

BM Requirements

Mathematics (Satisfies CAP Mathematics) ¹	3
Natural Sciences, includes:	7
HSS 305 Human Anatomy	
Lecture with Lab	
Social Sciences (Includes CAP Social Science)	3

Major Requirements 78

MUS 200	Recital Attendance (7 semesters)	0
MUS 202	Professional Development Workshop (7 semesters)	0
MUS 241	Keyboard Competency I	0
MUS 242	Keyboard Competency II	0
MUS 250	Second Year Review	0
MUS 450	Degree Recital (Satisfies CAP Major Capstone)	0
MUS 489	Music Therapy Internship ²	2
Conducting and Arranging		4
MUS 240	Fundamentals of Conducting	
MUS 318	Fundamentals of Arranging	
Ensembles		6
MUS 491	University Orchestra	
or MUS 492	Symphonic Wind Ensemble	
or MUS 493	University Chorale	
Music History and Literature		9
MUS 301	Music History & Literature I (Satisfies CAP Faith Traditions, Advanced Religious Studies)	
MUS 302	Music History & Literature II (Satisfies CAP Integrative, Advanced Historical Studies)	
MUS 303	Introduction to Musics of the World (Satisfies CAP Arts)	
Music Theory and Aural Skills		16
MUS 111	Theory of Music I	
MUS 112	Theory of Music II	
MUS 113	Aural Skills I	
MUS 114	Aural Skills II	
MUS 211	Theory of Music III	
MUS 212	Theory of Music IV	
MUS 213	Aural Skills III	
MUS 214	Aural Skills IV	
Music Therapy, including core courses and practica		28
MUS 233	Eurhythmics	
MUS 282	Functional Music Therapy Skills	
MUS 285	Introduction to Music Therapy	
MUS 286	Music Therapy Methods	
MUS 287	Practicum in Music Therapy I	
MUS 288	Practicum in Music Therapy II	
MUS 289	Practicum in Music Therapy III	
MUS 290	Music Therapy Treatment Processes	
MUS 381	Clinical & Educational Music Improvisation I	
MUS 382	Clinical & Educational Music Improvisation II	
MUS 385	Music Therapy Principles	
MUS 386	Music & Psychotherapy	
MUS 387	Practicum in Music Therapy IV	
MUS 388	Practicum in Music Therapy V	
MUS 486	Research in Music Therapy	
Performance Studies ³		10
MUS 399	Performance Studies	
Vocal and instrumental methods, including accompanying instruments of piano and guitar:		3
MUS 195	Beginning Guitar Class I	
MUS 295	Beginning Guitar Class II	

MUS 338	Percussion Pedagogy ⁴	
Breadth		
ASI 150	Introduction to the University Experience	1
PSY 101	Introductory Psychology	3
PSY 351	Child Psychology	3
PSY 355	Developmental Psychopathology	3
PSY 363	Abnormal Psychology	3
Total Hours to total at least		131

¹ MTH 207 recommended.

² This internship of a minimum of 900 hours is taken after student completes all other course requirements. In order to be recommended for an internship, the student must 1) demonstrate certain skills, characteristics, and dispositions required in the music therapy profession, 2) earn a grade of C- or better in each music therapy course, and 3) have an overall grade point average of at least 2.00 and a grade point average of at least 2.50 in music, music therapy, and psychology coursework. Upon earning a grade of C- or better in an internship, the graduate is eligible to take a national certification examination to become a Music Therapist - Board Certified.

³ Performance studies on the student's principal instrument leading to a minimum of a half-recital during the junior or senior year.

⁴ One semester of MUS 338 must be completed for a total of one semester hour.

Certificate in Church Music (MCH)

Church Music

MUS 110	Fundamentals of Music ¹	2
MUS 350	Sacred Music History	3
MUS 351	Church Music Administration	2
MUS 390	Ensembles	1
MUS 399	Performance Studies	1-2
MUS 452	Contemporary Liturgical Music Repertoire	2
MUS 459	Church Music Internship	2
REL 446	Christian Liturgy ²	3
Select one course from:		2
MUS 240	Fundamentals of Conducting	
MUS 545	Advanced Choral Conducting & Rehearsal Techniques	
Select six semester hours from:		6
MUS 318	Fundamentals of Arranging	
MUS 461	Special Topics in Church Music	
MUS 505	Teaching Music with Technology I	
MUS 506	Teaching Music with Technology II	
Total Hours		24-25

¹ May substitute additional credits in performance studies or church music workshops for MUS 110.

² Or two to three semester hours of a suitable religious studies course.

Minor in Music (MUS)

Music

Select one music theory option from:	4
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Option A:

MUS 115	Music in Theory & Practice I	
Select MUS electives (1 hours)		

Option B:

MUS 111	Theory of Music I	
MUS 113	Aural Skills I	

Select two courses from: 6

MUS 301	Music History & Literature I	
MUS 302	Music History & Literature II	
MUS 303	Introduction to Musics of the World	

Ensembles¹ 2

MUS 390	Ensembles ²	
MUS 491	University Orchestra	
MUS 492	Symphonic Wind Ensemble	
MUS 493	University Chorale	
MUS 494	Dayton Jazz Ensemble	

Electives 3

Select MUS electives (3 hours)	
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Total Hours 15

¹ Take a total of two semester hours from any combination of these courses.

² Choose from any MUS 390. See course descriptions.

Minor in Music Technology (MTC)

Music Technology

Select one music theory option from: 4

Option A

MUS 115	Music in Theory & Practice I	
Select MUS electives (1 hour)		

Option B

MUS 111	Theory of Music I	
MUS 113	Aural Skills I	

Applied Studies¹ 2

MUS 399	Performance Studies	
MUS 499	Performance Studies	

Select one course from: 3

MUS 301	Music History & Literature I	
MUS 302	Music History & Literature II	
MUS 303	Introduction to Musics of the World	

Music Technology 5

MUS 223	Introduction to Music Technology	
MUS 323	Experiments in Digital Sound and Media	

Electives 3

Select MUS electives (3 hours)	
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Total Hours 17

¹ Take a total of two semester hours from any combination of these courses.

- Bachelor of Arts, Music- Ethnomusicology Concentration (p. 228)
- Bachelor of Arts, Music - Jazz Studies Concentration (p. 228)
- Bachelor of Arts, Music - Music Studies Concentration (p. 229)

- Bachelor of Music, Music Composition (p. 230)
- Bachelor of Music, Music Education - Instrumental Concentration (p. 231)
- Bachelor of Music, Music Education - Vocal Concentration (p. 231)
- Bachelor of Music, Music Performance (p. 232)
- Bachelor of Music, Music Therapy (p. 233)

MUS 399	1 MUS 390, 491, 492, or 493	1
ANT 360 (Social Science - elective)	3 SOC 394	3
SOC 101	3 ANT 449	3
INSS (CAP Natural Science)	3 INSS (CAP Natural Science w/ lab)	4
Language 101	4 Language 141	4
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		17 17

Bachelor of Arts, Music- Ethnomusicology Concentration

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 MUS 112	2
MUS 111	2 MUS 114	2
MUS 113	2 MUS 200	0
MUS 200	0 MUS 303 (CAP Arts)	3
MUS 241	0 MUS 390, 491, 492, or 493	1
MUS 390, 491, 492, or 493	1 MUS 399	1
MUS 399	1	
CMM 100 (CAP Communication)	3	
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		16 15

Fourth Year		
Fall	Hours Spring	Hours
Language 201 or contextual course	3 MUS 304 (CAP Practical Ethical Action)	3
MUS 200	0 MUS 390, 491, 492, or 493	1
MUS 390, 491, 492, or 493	1 MUS 481 (Satisfies CAP Major Capstone)	1
MTH (CAP Mathematics)	3 SSC 200 (CAP Social Science)	3
ANT 352	3 CAP Advanced Philosophy	3
INSS Natural Science w/lab	4 Literature (Liberal Studies)	3
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		14 14

Total credit hours: 124

Second Year		
Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 MUS 200	0
MUS 200	0 MUS 212	2
MUS 211	2 MUS 214	2
MUS 213	2 MUS 250	0
MUS 301 (CAP Faith Traditions, Adv. Religious Studies)	3 MUS 302 (CAP Integrative, Adv. Historical Study)	3
MUS 390, 491, 492, or 493	1 MUS 390, 491, 492, or 493	1
MUS 399	2 MUS 399	1
ANT 150 (CAP Inquiry, Diversity and Social Justice; Social Science - intro level)	3 ANT 306 (CAP Diversity and Social Justice)	3
	ANT 356 (Social Science - 300/400 level)	3
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		16 15

Bachelor of Arts, Music- Jazz Studies Concentration

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 MUS 112	2
MUS 111	2 MUS 114	2
MUS 113	2 MUS 200	0
MUS 200	0 MUS 303 (CAP Arts)	3
MUS 241	0 MUS 390 or 494	1
MUS 390 or 494	1 MUS 399	2
MUS 399	2	
CMM 100 (CAP Communication)	3	
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		17 16

Third Year		
Fall	Hours Spring	Hours
MUS 200	0 MUS 200	0
MUS 217	2 MUS 242	0
MUS 390, 491, 492, or 493	1 MUS 399	2

Second Year		
Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 MUS 200	0

Bachelor of Arts, Music- Music Studies Concentration

First Year

Fall	Hours	Spring	Hours
ASI 150		1 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	1	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	3 MUS 112	2
MUS 111		2 MUS 114	2
MUS 113		2 MUS 200	0
MUS 200		0 MUS 303 (CAP Arts)	3
MUS 241		0 MUS 390, 491, 492, or 493	1
MUS 390, 491, 492, or 493	1	1 MUS 399	2
MUS 399	2		
CMM 100 (CAP Communication)	3		
		17	16

Second Year

Fall	Hours	Spring	Hours
ENG 200 (CAP Writing Seminar)		3 MUS 200	0
MUS 200		0 MUS 212	2
MUS 211		2 MUS 214	2
MUS 213		2 MUS 242	0
MUS 301 (CAP Faith Traditions, Advanced Religious Studies)		3 MUS 240	2
MUS 390, 491, 492, or 493	1	1 MUS 250	0
MUS 399	2	2 MUS 302 (CAP Integrative, Advanced Historical Studies)	3
Language 101		4 MUS 399	1
		SSC 200 (CAP Social Science)	3
		Language 141	4
		17	17

Third Year

Fall	Hours	Spring	Hours
MUS 200		0 MUS 200	0
MUS 399		2 MUS 390, 491, 492, or 493	1
MTH (CAP Mathematics)	3	3 MUS 399	1
INSS (CAP Natural Science w/lab)	4	3 Social Science - elective	3
Social Science - intro level	3	3 INSS (CAP Natural Science w/lab)	4
Language 201 or contextual course	3	3 General elective	3

MUS 200	0	MUS 212	2
MUS 211	2	MUS 218	2
MUS 301 or 302 (CAP Faith Traditions, Advanced Religious Studies)	3	MUS 250	0
MUS 390 or 494	1	MUS 302 (CAP Integrative, Advanced Historical Studies)	3
MUS 399	2	MUS 390 or 494	1
Language 101	4	INSS (CAP Natural Science)	3
	4	Language 141	4
	15		15

Third Year

Fall	Hours	Spring	Hours
MUS 200		0 MUS 200	0
MUS 391		1 MUS 242	0
MUS 390 or 494	1	1 MUS 306	3
INSS (CAP Natural Science w/lab)	4	MUS 392	1
MTH (CAP Mathematics)	3	MUS 390 or 494	1
Social Science - intro level	3	MUS 399	2
Language 201 or contextual course	3	Social Science - elective	3
		INSS Natural Science w/lab	4
	15		14

Fourth Year

Fall	Hours	Spring	Hours
MUS 200		0 MUS 304 (CAP Practical Ethical Action, Diversity and Social Justice)	3
MUS 396	1	1 MUS 397	1
MUS 399	2	2 MUS 481 (Satisfies CAP Major Capstone)	1
SSC 200 (CAP Social Science)	3	3 CAP Advanced Philosophy	3
CAP Inquiry	3	3 Literature	3
Social Science - 300/400 level	3	3 General elective	3
General elective	3	3 General elective	3
	15		17

Total credit hours: 124

	General elective	2	
<hr/>		15	14
Fourth Year			
Fall	Hours Spring	Hours	
MUS 200	0 MUS 304 (CAP Practical Ethical Action, Diversity and Social Justice)	3	
MUS 399	2 MUS 481 (Satisfies CAP Major Capstone)	1	
CAP Inquiry	3 CAP Advanced Philosophy	3	
Social Science - 300/400 level	3 Literature	3	
INSS Natural Science	3 General elective	3	
General elective	3 General elective	1	
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Total credit hours: 124

Bachelor of Music, Music Composition

First Year			
Fall	Hours Spring	Hours	
ASI 150	1 ENG 100 (CAP Humanities Commons)	3	
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3	
MUS 111	2 MUS 112	2	
MUS 113	2 MUS 114	2	
MUS 121	1 MUS 122	1	
MUS 200	0 MUS 200	0	
MUS 202	0 MUS 202	0	
MUS 241	0 MUS 297	1	
MUS 296	1 MUS 399	2	
MUS 491, 492, or 493	1 MUS 491, 492, or 493	1	
MUS 399	2 Music elective	1	
Music elective	1		
<hr/>		17	19

Second Year			
Fall	Hours Spring	Hours	
MTH (CAP Mathematics)	3 ENG 200 (CAP Writing Seminar)	3	
MUS 200	0 MUS 200	0	
MUS 202	0 MUS 202	0	
MUS 211	2 MUS 212	2	
MUS 213	2 MUS 214	2	
MUS 221	1 MUS 222	1	

MUS 298	1 MUS 242	0
MUS 301 (CAP Faith Traditions, Advanced Religious Studies)	3 MUS 250	0
MUS 399	2 MUS 299	1
MUS 491, 492, or 493	1 MUS 302 (CAP Integrative, Advanced Historical Studies)	3
MUS Theory or Composition	2 MUS Theory or Composition	2
Music elective	1 MUS 491, 492, or 493	1
	MUS 399	2
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Third Year			
Fall	Hours Spring	Hours	
MUS 200	0 MUS 200	0	
MUS 202	0 MUS 202	0	
MUS 240	2 MUS 303 (CAP Arts)	3	
MUS 321	2 MUS 316 or 318	2	
MUS 314	2 MUS 322	2	
MUS Theory or Composition	3 MUS 345 or 346	2	
MUS 491, 492, or 493	1 MUS 491, 492, or 493	1	
CAP Inquiry	3 MUS 450	0	
CAP Natural Science w/lab	4 Music elective	1	
	CAP Natural Science	3	
	SSC 200 (CAP Social Science)	3	
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Fourth Year			
Fall	Hours Spring	Hours	
MUS 200	0 MUS 422	2	
MUS 202	0 MUS 450 (Satisfies CAP Major Capstone)	0	
MUS 416	2 MUS 491, 492, or 493	1	
MUS 421	2 Music elective	3	
MUS 491, 492, or 493	1 CAP Advanced Philosophy	3	
Music elective	3 CAP Diversity and Social Justice	3	
MUS Theory or Composition	3 Social Science - elective	3	
CAP Practical Ethical Action	3		
General elective	3		
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Total credit hours: 137

Bachelor of Music, Music Education- Instrumental Concentration

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3 MUS 112	2
REL 103 (CAP Humanities Commons)	3 MUS 114	2
MUS 111	2 MUS 195	1
MUS 113	2 MUS 200	0
MUS 200	0 MUS 202	0
MUS 202	0 MUS 303 (CAP Arts)	3
MUS 241	0 MUS 337	1
MUS 399	2 MUS 390 (Chamber Ensemble)	0.5
MUS 337	1 MUS 399	2
MUS 492	1 MUS 492	1
CMM 100 (CAP Communication)	3 EDT 110 EDT 110L	3 0
	18	18.5

Second Year		
Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 MUS 200	0
MUS 200	0 MUS 202	0
MUS 202	0 MUS 212	2
MUS 211	2 MUS 214	2
MUS 213	2 MUS 242	0
MUS 231	2 MUS 250	0
MUS 236	1 MUS 302 (CAP Integrative, Advanced Historical Studies)	3
MUS 301 (CAP Faith Traditions, Advanced Religious Studies)	3 MUS 336	1
MUS 336	1 MUS 339	1
MUS 339	1 MUS 390 (Chamber Ensemble)	0.5
MUS 390 (Chamber Ensemble)	0.5 MUS 399	2
MUS 399	2 MUS 492	1
MUS 492	1 MUS elective EDT 207 EDT 207L	2 3 0
	18.5	17.5

Third Year		
Fall	Hours Spring	Hours
PHL 103 (CAP Humanities Commons)	3 MUS 200	0
MUS 200	0 MUS 202	0
MUS 202	0 MUS 332	3
MUS 240	2 MUS 346	2
MUS 318	2 MUS 399	2
MUS 335	3 MUS 430	2
MUS 338	1 MUS 492	1
MUS 340	3 CAP Natural Science	3
MUS 390 (Choral Ensemble)	1 CAP Inquiry	3

MUS 399	2 CAP Diversity and Social Justice	3
EDT 305 (CAP Practical Ethical Action, Advanced Philosophy)	3	
	20	19

Fourth Year		
Fall	Hours Spring	Hours
MUS 200	0 EDT 479	12
MUS 202	0	
MUS 331	3	
MUS 390 (Chamber Ensemble)	0.5	
MUS 390 (Marching Band)	1	
MUS 399	2	
MUS 431	2	
MUS 450 (Satisfies CAP Major Capstone)	0	
SSC 200 (CAP Social Science)	3	
CAP Mathematics	3	
CAP Natural Science w/lab	4	
	18.5	12

Total credit hours: 142

Bachelor of Music, Music Education- Vocal Concentration

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3 MUS 112	2
REL 103 (CAP Humanities Commons)	3 MUS 114	2
MUS 111	2 MUS 200	0
MUS 113	2 MUS 202	0
MUS 200	0 MUS 235	1
MUS 202	0 MUS 295	1
MUS 241	0 MUS 303 (CAP Arts)	3
MUS 399	2 MUS 399	2
MUS 195	1 MUS 493	1
MUS 493	1 EDT 110	3
CMM 100 (CAP Communication)	3 EDT 110L	0
	18	18

Second Year		
Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 MUS 200	0
MUS 200	0 MUS 202	0
MUS 202	0 MUS 212	2
MUS 211	2 MUS 214	2
MUS 213	2 MUS 242	0
MUS 231	2 MUS 250	0
MUS 237	1 MUS 302 (CAP Integrative, Advanced Historical Study)	3
MUS 301 (CAP Faith Traditions, Advanced Religious Studies)	3 MUS 408	2
MUS 338	1 MUS 399	2
MUS 390	1 MUS 493	1
MUS 399	2 MUE elective	2
MUS 493	1 EDT 207	3

MUE elective	1 EDT 207L	0
	19	17
Third Year		
Fall	Hours Spring	Hours
PHL 103 (CAP Humanities Commons)	3 MUS 200	0
MUS 200	0 MUS 202	0
MUS 202	0 MUS 332	3
MUS 240	2 MUS 339	1
MUS 318	2 MUS 399	2
MUS 335	3 MUS 390 (Instrumental Ensemble)	1
MUS 238	1 MUE elective	2
MUS 340	3 MUE elective	1
MUS 399	2 CAP Natural Science	3
EDT 305 (CAP Practical Ethical Action, Advanced Philosophy)	3 CAP Inquiry	3
MUS 493	1 CAP Diversity and Social Justice	3
	20	19

Fourth Year		
Fall	Hours Spring	Hours
MUS 200	0 EDT 479	12
MUS 202	0	
MUS 331	3	
MUS 390 (Vocal Ensemble)	1	
MUS 450 (Satisfies CAP Major Capstone)	0	
MUE elective	2	
SSC 200 (CAP Social Science)	3	
MTH (CAP Mathematics)	3	
CAP Natural Science w/lab	4	
General elective	1	
	17	12

Total credit hours: 140

Bachelor of Music, Music Performance

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 MUS 112	2
CMM 100 (CAP Communication)	3 MUS 114	2
MUS 111	2 MUS 200	0
MUS 113	2 MUS 202	0
MUS 200	0 MUS 303 (CAP Arts)	3
MUS 202	0 MUS 399 or MUS 499	4
MUS 241	0 MUS 491, 492, or 493	1
MUS 399 or MUS 499	4	
MUS 491, 492, or 493	1	
	19	18

Second Year		
Fall	Hours Spring	Hours
MUS 200	0 ENG 200 (CAP Writing Seminar)	3
MUS 202	0 MUS 200	0
MUS 211	2 MUS 202	0
MUS 213	2 MUS 212	2
MUS 240	2 MUS 214	2
MUS 301 (CAP Faith Traditions, Advanced Religious Studies)	3 MUS 242	0
MUS 399 or MUS 499	4 MUS 250	0
MUS 491, 492, or 493	1 MUS 302 (CAP Integrative, Advanced Historical Studies)	3
SSC 200 (CAP Social Science)	3 MUS 318	2
	MUS 399 or MUS 499	4
	MUS 491, 492, or 493	1
	17	17

Third Year		
Fall	Hours Spring	Hours
MUS 200	0 MUS 200	0
MUS 202	0 MUS 202	0
MUS 399 and/or MUS 499	6 MUS 399 and/or MUS 499	6
MUS 491, 492, or 493	1 MUS 491, 492, or 493	1
Music elective	1 Music elective	2
CAP Natural Science w/lab	4 Music elective	1
CAP Inquiry	3 CAP Natural Science	3
General elective	3 Social Science	3
	18	16

Fourth Year		
Fall	Hours Spring	Hours
MUS 200	0 MUS 399 or MUS 499	4
MUS 202	0 MUS 450 (Satisfies CAP Major Capstone)	0
MUS 304 (CAP Practical Ethical Action, Diversity and Social Justice)	3 MUS 491, 492, or 493	1
MUS 399 or MUS 499	4 Music elective	2
MUS 450	0 Music elective	2
MUS 491, 492, or 493	1 Music elective	2
Music elective	2 CAP Advanced Philosophy	3
Music elective	2 General elective	3
MTH (CAP Mathematics)	3	
	15	17

Total credit hours: 137

Bachelor of Music, Music Therapy

First Year			Fourth Year		
Fall	Hours Spring	Hours	Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3	MUS 200	0 MUS 304 (CAP Practical Ethical Action, Diversity and Social Justice)	3
HST 103 (CAP Humanities Commons)	3 MUS 112	2	MUS 202	0 MUS 382	2
REL 103 (CAP Humanities Commons)	3 MUS 114	2	MUS 240	2 MUS 386	3
PSY 101	3 MUS 195	1	MUS 318	2 MUS 388	2
MUS 111	2 MUS 200	0	MUS 385	3 Music electives	1
MUS 113	2 MUS 202	0	MUS 387	2 CAP Advanced Philosophy	3
MUS 200	0 MUS 233	1	SSC 200 (CAP Social Science)	3	
MUS 202	0 MUS 285	3	PSY 355	3	
MUS 241	0 MUS 303 (CAP Arts)	3		15	15
MUS 399	2 MUS 399	2			
MUS 491, 492, or 493	1 MUS 491, 492, or 493	1			
	17	18			
Second Year			Fifth Year		
Fall	Hours Spring	Hours	Fall	Hours	Hours
ENG 200 (CAP Writing Seminar)	3 MTH 207 (CAP Mathematics, Inquiry)	3	MUS 489 (completed after all other coursework)	2	
PHL 103 (CAP Humanities Commons)	3 PSY 351	3		2	
MUS 200	0 MUS 200	0			
MUS 202	0 MUS 202	0			
MUS 211	2 MUS 212	2			
MUS 213	2 MUS 214	2			
MUS 282	2 MUS 242	0			
MUS 290	1 MUS 250	0			
MUS 301 (CAP Faith Traditions, Advanced Religious Studies)	3 MUS 287	1			
MUS 399	2 MUS 295	1			
MUS 491, 492, or 493	1 MUS 302 (CAP Integrative, Advanced Historical Study)	3			
	MUS 338	1			
	MUS 399	2			
	MUS 491, 492, or 493	1			
	19	19			
Third Year			Total credit hours: 134		
Fall	Hours Spring	Hours	Courses		
MUS 200	0 MUS 200	0	MUS 104. Music Literature for the Elementary Classroom. 2 Hours		
MUS 202	0 MUS 202	0	Study of music literature and its direct application to elementary classroom use.		
MUS 286	2 MUS 289	1	MUS 110. Fundamentals of Music. 2 Hours		
MUS 288	1 MUS 491, 492, or 493	1	For the student with no previous experience with theory of music. Notation of music, key and time signatures, fundamental harmonic progression, and introduction to the piano keyboard. Elementary ear training and dictation. Open to all University students.		
MUS 381	2 MUS 486	2	MUS 111. Theory of Music I. 2 Hours		
MUS 399	2 MUS 450 (Satisfies CAP Major Capstone)	0	Basic vocabulary and grammar of music: fundamentals (intervals, scales, modes, keys, triads), and counterpoint studies. Assignments are done with computer notation programs, and portions of the course use web-based texts.		
MUS 491, 492, or 493	1 Music elective	2	MUS 112. Theory of Music II. 2 Hours		
PSY 363	3 CMM 100 (CAP Communication)	3	Basic diatonic and chromatic harmonic vocabulary studies, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. Prerequisite(s): (MUS 111 with a grade of C- or better) or permission of instructor.		
CAP Natural Science w/lab	4 HSS 305	3	MUS 113. Aural Skills I. 2 Hours		
			The hearing of musical structure is developed through active listening to representative pieces from music literature. Emphasis on formal relations, musical development and historical styles. Introduction to solfege singing and music transcription.		

MUS 114. Aural Skills II. 2 Hours

Further developing the ability to hear musical structure through transcription of intervals, melody, rhythm and harmonic patterns and short musical compositions of music in representative stylistic categories. Use of solfege singing to represent students' internalization of melodic structure. Prerequisite(s): (MUS 113 with a grade of C- or better) or permission of instructor.

MUS 115. Music in Theory & Practice I. 3 Hours

Music theory studies, appropriate for minors and non-music majors. Fundamentals of music and diatonic vocabulary: connections to classical and contemporary literature. Aural skills incorporated into daily classes. Open to all University students.

MUS 116. Music in Theory & Practice. 3 Hours

Continuation of MUS 115: music between 1600-1900, harmony and analysis. Aural skills incorporated into daily classes. Prerequisite(s): MUS 115. Corequisite(s): Current performance studies or active participation in a music ensemble which requires note-reading skills.

MUS 121. Composition I. 1 Hour

Supplemental explorations for majors in music composition, to accompany work in MUS 111-112. Basic notational practices and application of traditional techniques to the creative process. Prerequisite(s): MUS 111 (may be taken as a corequisite).

MUS 122. Composition I. 1 Hour

Supplemental explorations for majors in music composition, to accompany work in MUS 111-112. Basic notational practices and application of traditional techniques to the creative process. Prerequisite(s): MUS 112 (may be taken as a corequisite). Corequisite(s): MUS 121.

MUS 191. Voice Class. 2 Hours

Basic principles of good singing; development of the voice; vocal literature. Open to all students, especially non-music majors.

MUS 195. Beginning Guitar Class I. 1 Hour

Introduction to playing the guitar with emphasis on chord playing and accompaniment, improvisation, and application of the guitar to music teaching.

MUS 196. Group Piano I. 1 Hour

For the student with no previous piano study. Rudiments of music reading, performance of simple folk and popular music, basic knowledge of scales, key signatures, and chords. Open to all University students.

MUS 200. Recital Attendance. 0 Hours

All music majors are required to attend professional and student concerts and recitals, to develop critical listening experience and knowledge of repertoire.

MUS 201. Music In Concert. 3 Hours

Survey of music literature, styles, and important composers, through preparation for and attendance at selected concerts on the campus and in the community. Concert tickets are considered text book materials and must be purchased by the student. Open to all University students.

MUS 202. Professional Development Workshop. 0 Hours

All Bachelor of Music majors are required to attend a weekly professional workshop in their degree area. Course format is didactic and/or experiential according to degree program needs. Course material includes a variety of professional, pedagogical, and technological topics. May be repeated.

MUS 203. Sights & Sounds of Music. 3 Hours

An introduction to music and its literature, with emphasis on the way music has been shaped by its cultural, geographic, and historical contexts. Open to all University students.

MUS 205. Music, Technology and Culture. 3 Hours

Through interactive and creative activities, students will explore the intersections of music technology and culture historically and in our current rapidly changing media and musical communities at UD and beyond. The course will also consider the ways technology has altered our approach and access to music making and listening.

MUS 211. Theory of Music III. 2 Hours

Advanced diatonic and chromatic harmonic vocabulary studies and Schenkerian analysis, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. Prerequisite(s): (MUS 112 with grade of C- or better) or permission of instructor.

MUS 212. Theory of Music IV. 2 Hours

Music of the twentieth century, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. Prerequisite(s): (MUS 211 with a grade of C- or better) or permission of instructor.

MUS 213. Aural Skills III. 2 Hours

Explores more advanced musical hearing and transcription techniques through later harmonic, melodic and rhythmic styles. More advanced melodic, harmonic and rhythmic materials as well as the continuing use of solfege singing to represent students' internalization of melodic structure. Prerequisite(s): (MUS 114 with grade of C- or better) or permission of instructor.

MUS 214. Aural Skills IV. 2 Hours

Late nineteenth, twentieth and twenty-first century musical structures of harmony, melody, rhythm and compositional development/form explored through listening, transcription and performance. Prerequisite(s): (MUS 213 with a grade of C- or better) or permission of instructor.

MUS 217. Listening & Transcription Skills. 2 Hours

Skills in hearing and notating music of representative and diverse styles through use of digital recording, sequencing, and computer notation software. Prerequisite(s): (MUS 112, 114) or permission of instructor.

MUS 218. Popular Jazz Theory. 2 Hours

Skills in the composition and arranging of popular and jazz styles in music including harmonic progression, melodic forms and the structure of voices and instruments in arrangements. Emphasis on creative applications of technology on the facility of music production. Culminating project is an arrangement, produced and recorded by the student. Prerequisite(s): (MUS 111, 112) or (MUS 115, 116) or permission of instructor.

MUS 221. Composition II. 1 Hour

Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications. Prerequisite(s): MUS 211 (may be taken as a corequisite).

MUS 222. Composition II. 1 Hour

Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications. Prerequisite(s): MUS 212, 221, (may be taken as corequisites).

MUS 223. Introduction to Music Technology. 2 Hours

Provides students with an introduction to the notation and recording of music with a computer. Students will learn to compile and print music, record digital instruments with MIDI, and record and mix music with portable digital audio workstations.

MUS 231. Introduction to Music Education. 2 Hours

An introduction to a wide variety of pedagogical and philosophical aspects of teaching the arts. Topics will include technology, national and state standards, history, and professional organizations. Prerequisite(s): EDT 110.

MUS 232. Integrating Music into the Curriculum. 3 Hours

Primarily for Teacher Education majors. Development of knowledge, skills, values, and attitudes in music for integration into a classroom setting in which other classroom subjects are taught. Prerequisite(s): EDT 110.

MUS 233. Eurhythmics. 1 Hour

Exploration of time, space, and energy through individual and collaborative structured and creative movement for musicianship skill development.

MUS 235. Voice Pedagogy. 1 Hour

Techniques for teaching singing. Prerequisite(s): Voice major or permission of instructor.

MUS 236. Voice Laboratory. 1 Hour

Introduction to the performance and pedagogical techniques for voice. Prerequisite(s): Instrumental music major or permission of department chairperson.

MUS 237. Brass Instrument Laboratory. 1 Hour

Introduction to the performance and pedagogical techniques for the brass instrument family.

MUS 238. Woodwind Instrument Laboratory. 1 Hour

Introduction to the performance and pedagogical techniques for the woodwind instrument family.

MUS 240. Fundamentals of Conducting. 2 Hours

Introductory-level course discussing basic conducting techniques, musical styles, interpretation, score study and analysis, transposition, and literature. Dual emphasis of choral and instrumental techniques.

MUS 241. Keyboard Competency I. 0 Hours

Successful mastery of keyboard competency skills required for the first year music major. Prerequisite(s): Permission of department chairperson.

MUS 242. Keyboard Competency II. 0 Hours

Successful mastery of keyboard competency skills required for the second year music major. Prerequisite(s): MUS 241; permission of department chairperson.

MUS 250. Second Year Review. 0 Hours

Required mid-point evaluation of all music majors typically completed in the second semester of the second year of study toward the degree. Students must earn a satisfactory grade (S) in this course in order to enroll in upper-level coursework in their respective degree programs. Prerequisite(s): Permission of department chairperson.

MUS 280. Music & Movement for Persons with Disabilities. 1 Hour

Training in the use of music and movement for children with disabilities under the supervision of AIM (Adventures in Movement) for the Handicapped, Inc. Includes observations and practices in the field.

MUS 282. Functional Music Therapy Skills. 2 Hours

Aids music therapy majors in the development of functional competencies on keyboard, guitar, and voice, as well as the ability to learn, memorize, and perform a broad repertoire of American popular song. Prerequisite(s): MUS 195, MUS 241.

MUS 285. Introduction to Music Therapy. 3 Hours

History and development of music therapy profession; survey of theoretical bases, current trends, and music therapy applications with varied clientele. Prerequisite(s): PSY 101.

MUS 286. Music Therapy Methods. 2 Hours

Introduction to four methods of music therapy: re-creative, receptive, composition, and improvisation. Emphasis on assessment, planning, facilitation, and evaluation of music therapy experiences within each method. Prerequisite(s): MUS 285.

MUS 287. Practicum in Music Therapy I. 1 Hour

Supervised pre-internship field experiences with children and/or adults with special needs. Weekly lab required. Prerequisite(s): MUS 282; permission of department chairperson.

MUS 288. Practicum in Music Therapy II. 1 Hour

Supervised pre-internship field experiences with children and/or adults with special needs. Weekly lab required. Prerequisite(s): MUS 250, 287.

MUS 289. Practicum in Music Therapy III. 1 Hour

Supervised pre-internship field experiences with children and/or adults with special needs. Weekly lab required. Prerequisite(s): MUS 288.

MUS 290. Music Therapy Treatment Processes. 1 Hour

Addresses the development of established competencies in the areas of music therapy referral, assessment, treatment planning, evaluation, supervision, and documentation of these processes. Prerequisite(s): MUS 285.

MUS 293. Organ Class. 1 Hour

Introduction to the organ, including basic performance techniques, registration, beginning literature, and hymn playing.

MUS 294. Harpsichord Class. 1 Hour

Beginning course in harpsichord performance, including basic technique, stylistic considerations, and simple maintenance and tuning of the instrument.

MUS 295. Beginning Guitar Class II. 1 Hour

Note reading in first position; advanced chord work, introduction to chord solo playing, and improvisation. Prerequisite(s): MUS 195 or equivalent.

MUS 296. Functional Keyboard Skills I. 1 Hour

Instruction in development of basic performance technique, sight reading, accompanying, transposing, playing by ear, improvising, and score reading.

MUS 297. Functional Keyboard Skills II. 1 Hour

Further development of techniques introduced in MUS 296. Prerequisite(s): MUS 296.

MUS 298. Functional Keyboard Skills III. 1 Hour

Continuation of MUS 297 with emphasis on improvisation and harmonization techniques.

MUS 299. Functional Keyboard Skills IV. 1 Hour

Continuation of MUS 298 with emphasis on advanced chord work and modulation techniques. Prerequisite(s): MUS 298.

MUS 301. Music History & Literature I. 3 Hours

Survey of Western music history and literature from the earliest notations through the 18th century, with a particular emphasis on the religious, political, and social dimensions of the production, purposes, and reception of Western Art Music. Prerequisite(s): REL 103, MUS 300, MUS 111, or permission of department chairperson.

MUS 302. Music History & Literature II. 3 Hours

Survey of Western music history and literature from Beethoven to the present. Important composers, masterworks of music literature, music historiography, and compositional styles. Prerequisite(s): HST 103, MUS 300, AND MUS 111, or permission of department chairperson.

MUS 303. Introduction to Musics of the World. 3 Hours

Survey of music from around the world, and its role and function in society.

MUS 304. The Practice of American Music. 3 Hours

An exploration of American musical practices and traditions in relation to America's political, social and racial history. This course is a theme-based course. Open to all University students.

MUS 305. African-American Sacred Music. 3 Hours

Historical survey of African-American sacred music from its African roots to the present with an emphasis on developments in recent decades. Examines spirituals, the ring-shout, civil rights songs, the various forms of Gospel music, traditional hymnody of the African-American church, and the musical aspects of black preaching. Open to all University students.

MUS 306. History of American Jazz. 3 Hours

Survey of the literature and performance practices from 1890 to the present. Includes blues, Dixieland, ragtime, boogie-woogie, swing, bop, cool, funky, and current techniques. Open to all University students.

MUS 307. Development of American Popular Song. 3 Hours

Survey of American popular music from the days of the colonies, the war years, the ballad opera, minstrel, vaudeville, operetta, early film music, through Tin Pan Alley to Broadway, including European influences. Open to all University students.

MUS 308. Chamber Music & Symphony. 2 Hours

Formal and harmonic analysis of chamber music. Formal analysis of symphonies of classic, romantic, and contemporary composers. Prerequisite(s): MUS 211, MUS 212.

MUS 309. Opera History & Literature. 3 Hours

Survey of the development of the opera and its literature from its seventeenth-century beginnings to the present. Focus upon major works and composers. Open to all University students.

MUS 310. Mozart's Operas. 3 Hours

An interdisciplinary survey of Mozart's operas - German and Italian, serious and comic. Class discussions will be supplemented by extensive listening and/or viewing of recorded performances and, when possible, attendance at live performances.

MUS 311. Eighteenth-Century Counterpoint. 2 Hours

Study of the contrapuntal technique of the eighteenth century, particularly in the instrumental works of J.S. Bach. Original compositions in forms of the invention and the fugue. Prerequisite(s): MUS 211, MUS 212.

MUS 312. Sixteenth-Century Counterpoint. 2 Hours

Study of the medieval modes and the vocal polyphony of the motet and the Mass, up to and including five-part writing; original student compositions.

MUS 313. Advanced Aural Skills. 2 Hours

Advanced training in dictation, solfege, and aural analysis. Prerequisite(s): MUS 215.

MUS 314. Score Reading. 2 Hours

Training in reading music at the piano from open score. Drill in transposition, improvisation, and reading of various clefs, leading to the realization of full vocal and orchestral scores.

MUS 315. Music and Gender. 3 Hours

Survey of issues concerning music, gender and sexuality across cultures and time periods. Open to all University students.

MUS 316. Fundamentals of Orchestration. 2 Hours

Instrumentation studies of the four main orchestral families: woodwinds, brass, percussion, strings. Some work in combining families.

Prerequisite(s): MUS 212.

MUS 318. Fundamentals of Arranging. 2 Hours

Arranging studies for woodwinds, brass, percussion, strings, and choir. Individual examination of instruments; projects. Prerequisite(s): MUS 212.

MUS 321. Composition III. 2 Hours

Explorations of original composition, which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics. Prerequisite(s): MUS 214, 250.

MUS 322. Composition III. 2 Hours

Explorations of original composition, which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics. Prerequisite(s): MUS 250, 321.

MUS 323. Experiments in Digital Sound and Media. 3 Hours

Comprehensive overview of digital audio and digital visual media. Develops skills in creation and manipulation of digital media, media software, and their applications in contemporary media cultures. A personal laptop computer is required for this course.

MUS 325. Beethoven & His Era. 3 Hours

Survey of the music of Ludwig van Beethoven, including orchestral works and chamber music, opera, keyboard and sacred music; and a survey of the historical context in which Beethoven lived and worked - Europe and the Habsburg Empire of the late eighteenth and early nineteenth centuries, and especially Vienna, the Habsburg capital. Beethoven is the culmination of the High Classic style and also the first of a new generation of Romantic composers.

MUS 327. Music in Film. 3 Hours

Survey of the styles, aesthetics, and techniques of film music, emphasizing the interaction of music and visual image in film. Consideration of the changes in both film and film music, and their relationship to culture, society, and students' own lives.

MUS 328. History of the American Musical. 3 Hours

Survey of the history and literature of the American musical from its nineteenth century predecessors to the present day. The course will focus on major representative works, major composers, and other artistic innovators. Open to all University students.

MUS 331. Choral Music Methods. 3 Hours

Pedagogical techniques for choral ensembles. Topics include the singing voice, the changing voice, organization, artistic development, literature, and rehearsal techniques. National standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required. Prerequisite(s): MUS 250.

MUS 332. Instrumental Music Methods. 3 Hours

Pedagogical techniques for band and orchestra. Topics include teaching and rehearsal techniques, organization, assessment, learning theories, philosophy, literature, and programming. National standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required. Prerequisite(s): MUS 250.

MUS 335. Classroom Music Methods. 3 Hours

Pedagogical techniques for classroom music in grades preK through 8. Topics include the pedagogical methods of Orff, Kodaly, Suzuki, and Dalcroze; lesson-plan design, implementation, and assessment. Special emphasis on the exceptional learner. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required. Prerequisite(s): MUS 250.

MUS 336. Woodwind Pedagogy. 1 Hour

Course in woodwind pedagogy offered in two semester-long sections: (1) pedagogical techniques for clarinet and flute; (2) pedagogical techniques for saxophone, oboe, and bassoon. Repeatable up to two semester hours.

MUS 337. Brass Pedagogy. 1 Hour

Course in brass pedagogy offered in two semester-long sections (1) pedagogical techniques for trumpet and horn; (2) pedagogical techniques for trombone, euphonium, and tuba. Repeatable up to two semester hours.

MUS 338. Percussion Pedagogy. 0.5-1 Hours

Course in percussion pedagogy offered in two semester-long sections: (1) Pedagogical techniques for the percussion instruments; (2) performance study on snare drum, mallets and timpani; teaching techniques for accessory instruments; minor repairs: method book analysis. Repeatable up to one and a half semester hours.

MUS 339. String Pedagogy. 1 Hour

Pedagogical techniques for the string instruments. Separate sections for upper strings and lower strings. Each section is a full-term course.

MUS 340. Music Education for Diverse Student Populations in Inclusive Settings. 3 Hours

Introduction to issues in music education with and among a broad range of diverse student populations. Special needs students in music education settings will include but not be limited to those with physical, intellectual, cognitive, emotional, and sensory challenges that can impact the learning process. Other categories of students in music education settings will also be addressed in the course, including those from varied backgrounds such as racial and cultural origins, language groups, sexual identity, religion, gender, and economic and situational family units. Specific musical characteristics and needs of multiple types of learners will be examined, along with varied teaching methods and strategies to use in inclusive settings. Information and guidelines regarding state and federal regulatory issues related to education and music education will form the foundation for the topics included in this class. Field experience required. Prerequisite(s): MUS 231.

MUS 345. Choral Conducting. 2 Hours

Continuation of techniques introduced in MUS 240, dealing specifically with techniques for choral ensembles. Prerequisite(s): MUS 240.

MUS 346. Instrumental Conducting. 2 Hours

Continuation of techniques introduced in MUS 240, dealing specifically with techniques for band and orchestra. Prerequisite(s): MUS 240.

MUS 350. Sacred Music History. 3 Hours

Survey of the development of Christian Music and its function in worship. The focus will be on historical styles, including both their impact on and their application within liturgical settings, as well as on the religious reflections engendered by specific works.

MUS 351. Church Music Administration. 2 Hours

Examination of the process, organization, administration, planning, and presentation of church music in various Christian traditions. Attention is given to concepts of worship planning, the organization of a comprehensive music program, program development and the relationship between the music ministry and various other church entities.

MUS 352. Understanding Sacred Music & Worship in the Local Church. 3 Hours

Study of the important relationship between music and worship in the life of the individual and in the life of the corporate Christian church with an emphasis on developments in recent decades. Studies the distinction and interconnectedness of the local church (congregation) and the Institutional Church. An historical overview of music and worship with Biblical foundations is provided. Prerequisite(s): REL 103 or ASI 110 or equivalent.

MUS 354. Gospel Music: Instrument of Social Change. 3 Hours

Study of gospel music as social, political, cultural, religious and historical commentary on and a vehicle for discussing and addressing issues of justice and race in America.

MUS 360. Special Topics in Music. 1-3 Hours

Studies in specialized areas of music. May be repeated as topics change, up to six semester hours. Prerequisite(s): Permission of instructor.

MUS 365. Music In Society. 3 Hours

Study of how music and musicians affect, and are affected by, the human societies in which they live. May be repeated for additional credit as topics change.

MUS 381. Clinical & Educational Music Improvisation I. 2 Hours

Music improvisation techniques and procedures using piano, percussion, voice, guitar, and student's major instrument. Emphasis on the acquisition of clinical and educational music improvisational skills to be applied in the medical, rehabilitation, clinical and/or school music education setting. Prerequisite(s): MUS 212, 214.

MUS 382. Clinical & Educational Music Improvisation II. 2 Hours

Intermediate skill development in clinical and educational music improvisation. Emphasis on assessment, implementation, and evaluation of individual, dyadic, and group improvisatory experiences. Acquisition of expressive movement repertoire to improvised music. Prerequisite(s): MUS 381.

MUS 385. Music Therapy Principles. 3 Hours

Principles and processes underlying the applications of music in therapy, including philosophical approaches, assessment procedures, goals and objectives, evaluation and documentation techniques, and professional ethics and standards of clinical practice. Prerequisite(s): MUS 289.

MUS 386. Music & Psychotherapy. 3 Hours

Overview of concepts, methods, and materials in the clinical practice of various forms of music psychotherapy. Exploration of the role and function of music within other therapeutic approaches (e.g., cognitive, humanistic, etc.). Identification of factors and issues affecting the helping process. Prerequisite(s): MUS 385 or permission of instructor.

MUS 387. Practicum in Music Therapy IV. 2 Hours

Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required. Corequisite(s): MUS 385.

MUS 388. Practicum in Music Therapy V. 2 Hours

Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required. Corequisite(s): MUS 386.

MUS 390. Ensembles. 0.5-1 Hours

Experience the performing arts in instrumental or choral/vocal ensembles of the student's choice. Prerequisite(s): While there are no prerequisites, certain ensembles may require an audition as criteria for enrollment, permission of the instructor or auditions for seating or sectional placement.

MUS 391. Jazz Improvisation I. 1 Hour

Study and performance of the musical elements that define the various styles of jazz improvisation from the beginning to the intermediate level. Prerequisite(s): MUS 114 or permission of department chairperson.

MUS 392. Jazz Improvisation II. 1 Hour

Study of the musical elements that define the various styles of jazz improvisation from the intermediate to the advanced level. Prerequisite(s): MUS 391 or permission of department chairperson.

MUS 396. Jazz Keyboard Harmony I. 1 Hour

Practical and theoretical course of study achieved through in-depth analyses at an introductory level of chords and chord voicings, repertoire, manuscripts, videos and recordings of great jazz pianists. Students identify and perform harmonic techniques of jazz piano used by twentieth century jazz pianists. Prerequisite(s): MUS 297 or permission of department chairperson.

MUS 397. Jazz Keyboard Harmony II. 1 Hour

Practical and theoretical course of study achieved through in-depth analyses at an intermediate level of chords and chord voicings, repertoire, manuscripts, videos and recordings of great jazz pianists. Students identify and perform harmonic techniques of jazz piano used by twentieth century jazz pianists. Prerequisite(s): MUS 396 or permission of department chairperson.

MUS 398. Instrumental Jazz Improvisation. 1 Hour

Individualized instruction in instrumental jazz improvisation. Study of jazz theory, aural development, stylistic considerations, and repertoire. Prerequisite(s): Participation in Jazz Ensemble and/or Jazz Combo.

MUS 399. Performance Studies. 1-2 Hours

Private instruction (one thirty to forty-five minute lesson each week) in piano, voice, organ, violin, viola, cello, bass, flute, oboe, clarinet, bassoon, saxophone, trumpet-cornet, French horn, trombone, baritone, tuba, percussion, harp, harpsichord, classical and pick-style guitar, and jazz lessons in piano, guitar, bass, drums, brass, and woodwinds. Prerequisite(s): Permission of instructor.

MUS 3XG. Non-equivalent transfer. 1-3 Hours**MUS 401. Medieval & Renaissance Music. 1 Hour**

The development of music from circa 400 to 1600, including plainchant, early polyphony, Ars Nova, and Renaissance music; the relationship of music to other arts and to its historical context. Open to all University students.

MUS 402. Baroque Music. 2 Hours

Literature and performing practices from 1600 to 1750; the relationship of music to social and cultural movements. Open to all University students.

MUS 403. Classic & Romantic Music. 3 Hours

Literature and performing practices from 1750 to 1900; the relationship of music to social and cultural movements. Open to all University students.

MUS 404. Twentieth-Century Music. 2 Hours

Study of twentieth-century music, its styles, and its cultural contexts, including post-romantic, impressionistic, neo-classic, and avant-garde. Open to all University students.

MUS 405. Piano Literature. 2 Hours

Comprehensive survey of literature for the piano. Required of piano performance majors.

MUS 408. Diction & Literature for Singers. 2 Hours

Course in foreign language diction with an associated survey of significant and representative works from the vocal solo repertoire. Course alternates its content: German and English; and French and Italian. Course may be repeated as content changes. Prerequisite(s): MUS 399 or 499.

MUS 413. Style & Design. 2 Hours

Exploration of appropriate analytical techniques as applied to Western music from the Renaissance to the present. Prerequisite(s): MUS 212.

MUS 414. Style & Design. 2 Hours

Exploration and application of various musical styles as demonstrated by original compositions patterned after selected historic models. Prerequisite(s): MUS 413.

MUS 416. Advanced Orchestration. 2 Hours

Continuation of MUS 316. Intensive instrumentation studies and detailed analysis of orchestral work. Prerequisite(s): MUS 316.

MUS 418. Research in Music Theory. 2 Hours

Practical experience in analysis for music composition majors. Prerequisite(s): Senior standing in music.

MUS 419. Research in Music Theory. 2 Hours

Practical experience in analysis for music composition majors. Prerequisite(s): Senior standing in music.

MUS 421. Composition IV. 2 Hours

Advanced work in musical composition, writing multi-movement forms of both vocal and instrumental music. Prerequisite(s): MUS 250, 321, 322.

MUS 422. Composition IV. 2 Hours

Advanced work in musical composition, writing multi-movement forms of both vocal and instrumental music. Prerequisite(s): MUS 250, 321, 322.

MUS 423. Composition for Large Ensembles. 2 Hours

Preparation and execution of an extended work for large instrumental or vocal ensemble. All aspects of score and part preparation, notation, orchestration, correction, rehearsal, and performance will be considered.

MUS 424. Advanced Notational Techniques. 2 Hours

Study of special problems in contemporary notation and calligraphy. Work will be done through analysis of twentieth-century techniques and creative solutions to individual problems.

MUS 425. Electronic Music Composition. 2 Hours

Study of musical electronic techniques, ranging from tape recorders and musique concrete through synthesizer and computer-generated and organized sound.

MUS 426. Improvisational Music Composition. 2 Hours

Discussion, study, and performance of improvisational musical techniques, including historical overview of classical extemporization, stream of consciousness, jazz, and aleatory and indeterminism.

MUS 430. Jazz Pedagogy. 2 Hours

Methods and materials for the organization and teaching of jazz performance classes. Topics include teaching improvisation, the rhythm section, and repertoire for the school jazz band. Field experience required. Corequisite(s): Participation in the jazz program.

MUS 431. Marching Band Pedagogy. 2 Hours

Methods and materials for the organization and teaching of the high school marching band. Topics include teaching and rehearsal techniques, drill design, and philosophy. Field experience required. Corequisite(s): Participation in the marching band.

MUS 435. Piano Pedagogy. 2 Hours

Systematic preparation for the development of piano technique and tone; survey and study of graded teaching material of grades I and II. Prerequisite(s): Four terms of piano study or equivalent.

MUS 440. Advanced Instrumental Conducting. 2 Hours

Individualized instruction dealing with advanced analysis, interpretation, aural skills, repertoire study, and conducting. Prerequisite(s): MUS 346.

MUS 450. Degree Recital. 0 Hours

Required performance for all MUC, MUE, MUP, and MUT majors. Prerequisite(s): MUS 250; permission of department chairperson.

MUS 452. Contemporary Liturgical Music Repertoire. 2 Hours

Examination of ways in which contemporary musical resources are utilized in the worship of Christian churches. Choral, congregational, cantoral, and instrumental material will be considered in the context of both the liturgical seasons and specific services. REL 446 recommended.

MUS 459. Church Music Internship. 2 Hours

Minimum of one semester's supervised service as organist and/or choral director in an approved parish setting. Prerequisite(s): Completion of half of certificate requirements; permission of department chairperson.

MUS 460. Special Studies in Music. 1-9 Hours

Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to nine semester hours. Prerequisite(s): Senior standing in music or permission of instructor.

MUS 461. Special Topics in Church Music. 1-8 Hours

Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to eight semester hours. Prerequisite(s): Senior standing in music or permission of instructor.

MUS 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MUS 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MUS 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

MUS 480. Capstone Project Seminar. 1 Hour

The first in a sequence of two capstone courses. To be taken in the first semester of the senior year. This course is required for all Bachelor of Arts with a major in Music degrees. Students select a faculty mentor and work with the mentor to establish a capstone project topic, goals, outcomes, and timeline associated with the project. Prerequisite(s): MUS 250; senior standing; MUS major or permission of department chairperson.

MUS 480H. Capstone Project Seminar. 1 Hour

The first in a sequence of two capstone courses. To be taken in the first semester of the senior year. This course is required for all Bachelor of Arts with a major in Music degrees. Students select a faculty mentor and work with the mentor to establish a capstone project topic, goals, outcomes, and timeline associated with the project. Prerequisite(s): MUS 250; senior standing; MUS major or permission of department chairperson.

MUS 481. Capstone Project & Presentation. 1 Hour

Capstone course to be taken in the student's final year of study, a graduation requirement for all B.A. in Music concentrations. Students design, implement and present an independent project within their area of concentration to be reviewed by faculty and peers. Faculty approval of project and presentation is required for graduation. Prerequisite(s): MUS 250 and permission of degree program coordinator.

MUS 486. Research in Music Therapy. 2 Hours

Introduction to research methods; review of literature on experimental studies. Research project.

MUS 489. Music Therapy Internship. 2 Hours

Minimum of 900 hours supervised clinical training through resident internship in an AMTA roster or university-affiliate internship. This requirement precedes the granting of the music therapy degree. Prerequisite(s): Senior standing in music therapy; permission.

MUS 491. University Orchestra. 1 Hour

Performing arts experience in ensemble of string, wind, brass and percussion players; preparing literature for orchestra and chamber orchestra. Open to all University community members by audition.

MUS 492. Symphonic Wind Ensemble. 1 Hour

Performing arts experience in select band performing the finest in wind literature. Presents regular concerts during fall and winter terms. Auditions required.

MUS 493. University Chorale. 1 Hour

Arts experience in mixed vocal ensemble performing music from all style periods in regular concert appearances. Open to all University students. Auditions required.

MUS 494. Dayton Jazz Ensemble. 1 Hour

Performing arts experience in the interpretation and performance of traditional and contemporary big band jazz, including the art of improvisation. Audition required.

MUS 499. Performance Studies. 4 Hours

Private instruction (one-hour lessons weekly) in the same subjects as MUS 399. Prerequisite(s): Permission of instructor.

Philosophy

Major

- Bachelor of Arts, Philosophy (p. 240)

Minor:

- Philosophy (p. 241)

The objective of the philosophy major program is to provide students with the opportunity to understand contemporary philosophy in view of the history of philosophy. Students majoring in philosophy must successfully complete a minimum of 37 semester hours. The philosophy major program is also offered in India in conjunction with the Marianists. Consult the department chairperson for further information.

A minor in philosophy consists of 18 semester hours.

Faculty

Rebecca S. Whisnant, Chairperson

Distinguished Service Professor: Johnson

Professors Emeriti: Fischer, Johnson, Kunkel, Quinn, Richards, Ulrich, Zembaty

Professors: Benson, DesAutels, Fouke, Inglis, Kebede, Poe, Tibbetts

Associate Professors: Gabbe, James, Mosser, Paslaru, Payne, Whisnant

Assistant Professors: Bein, Bresnahan, Cheung, Mesami, Velasquez

Lecturers: Dunham, Florek, Marvin

Bachelor of Arts, Philosophy (PHL) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	

Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements ^{1,2} 37

PHL 103 Intro To Philosophy	3-7
or ASI 120 The Development of Western Culture in a Global Context	
PHL 240 Research Methodologies & Technologies	1
PHL 301 Practical Logic ³	3
or PHL 302 Symbolic Logic	
PHL 350 Classical Greek Philosophy	3
PHL 352 Modern Philosophy	3
PHL 375 Ethical Theory	3
PHL 480 Senior Capstone (Satisfies CAP Major Capstone)	0
Select two seminars from:	6
PHL 440 Seminar - Advanced Problems in Philosophy	
PHL 451 Seminar - Individual Philosophers	
PHL 461 Seminar - Contemporary Epistemology	
PHL 462 Seminar - Contemporary Ethics	
PHL 463 Seminar - Contemporary Metaphysics	

Select one track from:

Ethics and Social Justice 15

Select two courses from:

PHL 307 Philosophy and Feminist Thought	
PHL 310 Social Philosophy	
PHL 312 Ethics	
PHL 313 Business Ethics	
PHL 314 Philosophy of Law	
PHL 315 Medical Ethics	
PHL 316 Engineering Ethics	
PHL 317 Ethics of War	
PHL 318 Family Ethics	
PHL 319 Information Ethics	
PHL 321 Environmental Ethics	
PHL 327 Philosophy of Peace	
PHL 328 Philosophy of Punishment	
PHL 357 Radical Philosophy	

PHL 358	Marxist Philosophy
PHL 364	Race, Gender and Philosophy
PHL 370	Political Philosophy
PHL 371	Philosophy & Human Rights
PHL 372	Values & Economics
PHL 373	Philosophy & Cultural Diversity

Philosophy electives (9 hours)

History of Philosophy 15

Select two courses from:

PHL 351	Jewish, Christian, and Islamic Philosophy
PHL 353	Kant & Nineteenth-Century Philosophy
PHL 354	Twentieth-Century Philosophy
PHL 361	Philosophies of Change in U.S. History

Philosophy electives (9 hours)

Science, Technology, and Values 15

PHL 330	Philosophy of Science
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Select one course from:

PHL 306	Philosophy of Knowledge
PHL 315	Medical Ethics
PHL 316	Engineering Ethics
PHL 319	Information Ethics
PHL 321	Environmental Ethics
PHL 331	Science, Objectivity & Values
PHL 332	Technology & Values
PHL 333	Philosophy & Cognitive Science
PHL 334	Philosophy & Ecology

Philosophy electives (9 hours)

Religion, Mind, and Metaphysics 15

PHL 308	Metaphysics
or PHL 311	Philosophy of Religion

Select one course from:

PHL 309	Philosophy of Mind
PHL 351	Jewish, Christian, and Islamic Philosophy
PHL 355	Asian Philosophy
PHL 356	Christian Philosophy
PHL 360	Existentialism
PHL 365	Islamic Philosophy & Culture

Philosophy electives (9 hours)

Culture and Human Diversity 15

Select two courses from:

PHL 307	Philosophy and Feminist Thought
PHL 355	Asian Philosophy
PHL 361	Philosophies of Change in U.S. History
PHL 363	African Philosophy
PHL 364	Race, Gender and Philosophy
PHL 365	Islamic Philosophy & Culture
PHL 373	Philosophy & Cultural Diversity

Philosophy electives (9 hours)

Arts and Human Expression 15

Select two courses from:

PHL 320	Philosophy of Art
PHL 323	Philosophy & Literature

PHL 324	Philosophy & Film
PHL 325	Philosophy of Music
PHL 362	Philosophy of Language

Philosophy electives (9 hours)

Self-Designed 15

Philosophy electives (15 hours)

Breadth

ASI 150	Introduction to the University Experience	1
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Total Hours to total at least 124

- ¹ Includes CAP Components
- ² PHL courses are not applicable to CAP Advanced Studies.
- ³ Students who anticipate graduate work in philosophy are advised to take PHL 302.

Minor in Philosophy (PHL)

Philosophy

PHL 103	Intro To Philosophy	3
PHL 301	Practical Logic	3
or PHL 302	Symbolic Logic	

Select one course from: 3

PHL 350	Classical Greek Philosophy
PHL 351	Jewish, Christian, and Islamic Philosophy
PHL 352	Modern Philosophy
PHL 353	Kant & Nineteenth-Century Philosophy
PHL 354	Twentieth-Century Philosophy

Select one PHL seminar (400 level) 3

Select two PHL courses 6

Total Hours 18

First Year

Fall	Hours Spring	Hours
ASI 150	1 ASI 120 (CAP Humanities Commons)	8
ASI 110 (CAP Humanities Commons)	7 MTH (CAP Mathematics)	3
CMM 100 (CAP Communication)	3 Language 141	4
Language 101	4	
	15	15

Second Year

Fall	Hours Spring	Hours
SSC 200 (CAP Social Science)	3 PHL 240	1
PHL 301 or 302	3 PHL 350	3
Literature	3 PHL 352 (Satisfies CAP Faith Traditions)	3
INSS (CAP Natural Science w/lab)	4 INSS (CAP Natural Science)	3
Language 201 or contextual course	3 CAP Arts	3
	Social Science - intro level	3

16 16

Third Year		
Fall	Hours Spring	Hours
PHL 375	3 PHL Major Track	3
PHL Major Track	3 PHL Major Track	3
Creative & Performing Arts	3 CAP Advanced Religious Studies	3
INSS Natural Science w/lab	4 CAP Advanced Historical Studies	3
Social Science - elective	3 Social Science - 300/400 level	3
	16	15
Fourth Year		
Fall	Hours Spring	Hours
PHL Seminar	3 PHL 480 (Satisfies CAP Major Capstone)	0
PHL Major Track	3 PHL Seminar	3
CAP Practical Ethical Action	3 PHL Major Track	3
CAP Integrative	3 CAP Inquiry	3
CAP Advanced Religious Studies	3 CAP Diversity and Social Justice	3
General elective	1 General elective	3
	16	15

Total credit hours: 124

Courses

PHL 103. Introduction to Philosophy. 3 Hours

Introduction to philosophical reflection and study of some central philosophical questions in the Western intellectual tradition, including questions of ethics, human knowledge, and metaphysics. Readings from major figures in the history of philosophy such as Plato, Aristotle, Augustine, Aquinas, Descartes, Hume, and Kant.

PHL 240. Research Methodologies & Technologies. 1 Hour

Development of research skills appropriate for the major. Students submit papers carefully selected from written work required for major classes. Required for all Philosophy majors. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 301. Practical Logic. 3 Hours

Introduction to the principles of correct reasoning; techniques for the evaluation of arguments; common fallacies in argumentation; applications to current issues in ethics and other areas.

PHL 302. Symbolic Logic. 3 Hours

Concentrated study of the valid forms of deductive argument and proof in propositional logic and in predicate logic; study of formal systems and of logic and language. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 304. Philosophy of Human Nature. 3 Hours

Examination of humanist, religious and scientific perspectives regarding what defines our 'human nature?' These perspectives include: Western and non-Western philosophical and spiritual traditions, social psychology, cultural anthropology, and evolutionary biology. Throughout the focus is on primary-source texts rather than on summaries and surveys. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 306. Philosophy of Knowledge. 3 Hours

Various criteria, origins, and definitions of knowledge proposed by common sense, science, philosophy, and mysticism; questions of evidence, consistency, and validity pertaining to the problem of truth and belief. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 307. Philosophy and Feminist Thought. 3 Hours

Philosophical examination of major concepts and selected issues in feminist thought. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 308. Metaphysics. 3 Hours

Issues and problems under such topics as appearance and reality; universals; relations of mind and matter; the nature of persons and personal identity; causality; freedom and determination. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 309. Philosophy of Mind. 3 Hours

An analysis of the concept of mind and related issues such as Descartes' mind-body dualism and various responses; the nature of human agency, self-deception; and the rationality of emotions. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 310. Social Philosophy. 3 Hours

The concepts of liberty, justice, and equality as they relate to social problems such as autonomy, responsibility, privacy, common good, power, economic justice, and discrimination. This course also addresses how the obstacles to justice can be overcome. Prerequisite(s): PHL 103 or equivalent.

PHL 311. Philosophy of Religion. 3 Hours

The main issues involved in religious belief and practice, such as the relationship between reason and revelation; critical presentation of views of main writers in the field. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 312. Ethics. 3 Hours

Various types of moral and ethical theory in the Western tradition and major problems such as the extent of human responsibility and the conditions for making ethical judgments. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 313. Business Ethics. 3 Hours

Review of major ethical theories and concepts such as justice, human flourishing, rights, virtues, common good, and examination of their implications for today's business world. Prerequisite(s): PHL 103 or equivalent.

PHL 314. Philosophy of Law. 3 Hours

This is a course in the philosophy of law and jurisprudence that is designed for upper-level work in law, philosophy and law-related fields. The course includes the topics of rule of law, natural law theory, critical approaches to law, international law and human rights, distributive justice and material equality, privacy and sexual equality, and the function and limits of punishment. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 315. Medical Ethics. 3 Hours

Introduction to ethics in general and inquiry into the main ethical problems tied to medical practice and research, and the moral approaches for resolving them. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 316. Engineering Ethics. 3 Hours

Introduction to ethical issues in engineering by studying theories of moral justification and codes of ethics for engineers, and by applying these theories and codes to moral issues in engineering. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 317. Ethics of War. 3 Hours

Study of the ethics of war and the Just War Tradition. Students will be expected to apply the principles of this tradition to ethical issues such as the ethics of torture and the ethics of humanitarian intervention. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 318. Family Ethics. 3 Hours

Introduction to the development of the concept of a family in the tradition of Western philosophy and the philosophic analysis of contemporary ethical problems in marriage and in parenthood. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 319. Information Ethics. 3 Hours

Examination of ethical principles, codes, cases, incidents, and issues in the creation, use and distribution of information in and through various media. This includes issues in the ethical design, implementation, and use of computerized information systems. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 320. Philosophy of Art. 3 Hours

This course will critically evaluate advanced philosophical and art-historical texts pertaining to understanding and appreciating such arts as painting, sculpture, architecture, comedy, literature, theatre, music, dance, and street art. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 321. Environmental Ethics. 3 Hours

Study of the principal ethical perspectives on the treatment of animals and nature including such issues as agriculture, energy, pollution, and economics; assessment of political responses to current environmental problems. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 322. Philosophy and Theatre/Dance: Performing Human Identity. 3 Hours

An interdisciplinary and advanced philosophy course with two components: 1) theoretical, focusing on the philosophy of dance or theatre and the philosophy of human identity, and/or human flourishing, and 2) dance or theatre, where students will learn to use dance or theatre to express human identity. Repeatable for extra credit as topics change up to 6 semester hours. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 323. Philosophy & Literature. 3 Hours

Critical examination of philosophical concepts in selected literary masterpieces, ancient and modern. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 324. Philosophy & Film. 3 Hours

This course will critically evaluate texts in philosophy, film criticism, popular culture and other areas that are related to the philosophical study of movies and film. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 325. Philosophy of Music. 3 Hours

Philosophical investigation of the nature and value of music with emphasis on the varied attributes and purposes of music in relation to art, language, emotion, spirituality, and culture. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 327. Philosophy of Peace. 3 Hours

Examination of human violence and ethical justifications for war and exploration of resolutions for human conflict in processes such as pacifism, peacemaking, democratic world governance, nonviolent caring, and a sustainable economy. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 328. Philosophy of Punishment. 3 Hours

Critical examination of punishment, through an analysis of various forms of punishment and what they imply about human nature, power, social norms, and moral principles. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 330. Philosophy of Science. 3 Hours

Critical examination of the underpinnings of scientific knowledge, and how it differs from other systems of belief and knowledge, through an analysis and evaluation of various scientific concepts such as scientific laws, explanation, observation, and theory, with an exploration of the methods, presuppositions, and biases of scientific knowledge claims. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 331. Science, Objectivity & Values. 3 Hours

Study of three interrelated issues: the limits of scientific methodology; science as a social institution; and science and human values. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 332. Technology & Values. 3 Hours

Study of the social impact of technology-scientists' responsibility; technological change and social change; the 'technological fix'; democracy and the new technological elite; counter-culture critiques of technology. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 333. Philosophy & Cognitive Science. 3 Hours

Philosophical introduction to recent research in cognitive psychology, artificial intelligence, and neuroscience regarding human, animal, and machine intelligence; the relation between mind, brain, and personhood; and the biology of conscious states. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 334. Philosophy & Ecology. 3 Hours

An examination of the epistemological, methodological, ontological, and value issues of ecology, with a focus on how these issues affect the debates in philosophy of science. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 335. Philosophy of Sustainability. 3 Hours

Introduction to the importance, history and the many meanings of the idea of sustainability as it relates to economy, society and environment. Prerequisite(s): PHL 103 or ASI 110, ASI 120.

PHL 340. Special Problems in Philosophy. 1-3 Hours

Examination of perennial and contemporary problems of philosophy. May be repeated when topic changes. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 345. Philosophy Scholars' Seminar. 3 Hours

Study and seminar discussion of selected major philosophical works and the analysis, interpretation, and criticism of these works. Open by permission only to students in the Berry Scholars Program. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 350. Classical Greek Philosophy. 3 Hours

Critical exploration of the history of ancient Greek philosophy from the Presocratics to Aristotle. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 351. Jewish, Christian, and Islamic Philosophy. 3 Hours

A critical examination of theological arguments by major thinkers representing the Jewish, Christian, and Islamic traditions in the Middle Ages, with close attention to common philosophical underpinnings, and the cross-fertilization of ideas. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 352. Modern Philosophy. 3 Hours

Survey of developments of Natural Philosophy in the seventeenth and eighteenth centuries and how strands of Christian and Jewish religious traditions influenced the philosophical beginnings of modern science. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 353. Kant & Nineteenth-Century Philosophy. 3 Hours

Development of philosophy beginning with Kant through the nineteenth century including Kant and philosophers such as Fichte, Schelling, Hegel, Schopenhauer, Nietzsche, James, Peirce, and Frege. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 354. Twentieth-Century Philosophy. 3 Hours

Study of some of the major philosophical movements in the twentieth century including phenomenology, existentialism, critical theory (Frankfurt School), hermeneutics, and analytic philosophy. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 355. Asian Philosophy. 3 Hours

Introduction to Asian thought through the study of philosophers, texts, philosophical schools, and concepts that have their origins in Asia. Comparisons of various Asian philosophies and religions with each other as well as with Western traditions. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 356. Christian Philosophy. 3 Hours

An examination of the underlying philosophical issues of selected topics in the Christian faith to deepen the students' understanding of the faith in its historical and intellectual contexts. Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 357. Radical Philosophy. 3 Hours

Study of major attempts to develop a critical understanding of society; analysis of theories such as socialism, anarchism, feminism, critical theory, and critical race theory. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 358. Marxist Philosophy. 3 Hours

Explanation and critical examination of the basic concepts of dialectical and historical materialism and their application to issues of social change, with particular emphasis on class, gender, and race inequalities. Evaluation of the Marxist analysis of globalism and world inequality. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 360. Existentialism. 3 Hours

This course examines the body of philosophic thought known as Existentialism: its genesis within Kierkegaard's analysis of faith; its reaction to 19th century philosophy; its maturation in 20th century; and its absorption and extension into Christian Existentialism, religious inquiry, the arts, literature, social thinking and freedom movements of today. Primary foci of this course revolve around the themes of Faith as a lived experience, Human Reasoning and the Human Condition, Self and Others, Freedom and Morality. This course directs virtually all of its textual materials and discursive development toward the question "What does it mean to be human?" and in light of that, "What then shall we do?" Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

PHL 361. Philosophies of Change in U.S. History. 3 Hours

Study of philosophies of change emerging within U.S. history. It will examine 1) Philosophies arising from interactions and tensions among Indigenous, European, African, Latin American, and Asian cultural groups, and 2) American Pragmatism as articulating processes of change rather than seeking universal truths. Prerequisite(s): ASI 120 or PHL 103.

PHL 362. Philosophy of Language. 3 Hours

Theories of meaning and reference and their philosophical significance. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 363. African Philosophy. 3 Hours

Study African philosophy both in its confrontations with Eurocentrism and as an expression of Black Africa's distinct identity. It combines analytical and comparative approaches to expound Africa's traditional worldviews, ethical notions, and social ideas in the context defined by the impacts and legacies of colonization and the subsequent difficult transition to modernity. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 364. Race, Gender and Philosophy. 3 Hours

Investigation of how the intersections of race and gender shape our identity and the organization of local and global spaces. To this end the course considers questions about the metaphysical and epistemological dimensions of raced and gendered identity. Attention will be given to ethical and political analyses of racial patriarchy and in the course students will think through the most effective ways of reaching racial and gender justice. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 365. Islamic Philosophy & Culture. 3 Hours

Study of the intellectual history and culture of Islam as epitomized by Islamic philosophy, ethics, politics, and arts. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 370. Political Philosophy. 3 Hours

The course analyzes the evolution of political theories through a study of representative ancient and modern works of political philosophy. It also studies political changes and contemporary political ideas and practices in relation to diverse cultural contexts. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 371. Philosophy & Human Rights. 3 Hours

Examination of the nature and philosophical foundations of universal moral (human) rights; and application of human rights theory to issues and cases involving civil and political rights, and rights to equality, security, subsistence, education, welfare, employment, and health care. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 372. Values & Economics. 3 Hours

An inquiry into the impact of values and beliefs on the generation of modern economic forces. Analyzing capitalism as a system of validation of beliefs and values, the course relates underdevelopment with the conflict between tradition and modernity. It then reflects on the conditions of change liable to promote global expansion. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 373. Philosophy & Cultural Diversity. 3 Hours

Philosophical investigation into historical, social, and political dimensions of human diversity in its various manifestations. Topics include colonialism, racism, multiculturalism, nationalism, and democracy.

PHL 374. Philosophy and the City. 3 Hours

By studying philosophical questions as they apply to the local community, students will deepen their understanding both of philosophical theory and Dayton. This class may be taken multiple times for credit. Prerequisite(s): PHL 103 or ASI 110 or ASI 120.

PHL 375. Ethical Theory. 3 Hours

An examination of the significant ethical theories offered by historically significant philosophers along with some contemporary critiques of these theories. The theories examined will include virtue, deontological, and utilitarian approaches. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 376. Philosophy & Revolution. 3 Hours

No description available.

PHL 377. Philosophy and Mass Media. 3 Hours

Study of the intersection of various areas of philosophical inquiry and the mass media and investigation into the implications for the lives of individuals, the functioning of societies, and the development of the global community. Students will be expected to engage in inquiry into how mass media influences their own lives and communities, and to reflect upon the ethical responsibilities they have as consumers of mass media and that the makers of mass media might have. Prerequisite(s): PHL 103, ASI 120, or equivalent.

PHL 378. The Self Concept: Reality or Social Construct?. 3 Hours

The concept of a 'self' is one of the more elusive concepts in reflections on what it means to be human. Starting with (i) the Cartesian model of self as a metaphysically distinct, nonphysical entity, the course then explores (ii) Asian (particularly Buddhist) speculations on self as a linguistic fiction. Students are then introduced to (iii) recent cognitive science modeling of self and personal identity as instances of embodied/situated cognition, followed by contributions from the social sciences, including (iv) sociological theories of self as a social construct, as well as (v) clinical case studies of autistic, pathological, and fragmented selves. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 379. Latin American Philosophy. 3 Hours

This course provides background to the history of philosophy that emerges in and from Latin America. Were the Indians human? Did they have souls? When, if at all, is war justified? Why is the U.S. rich and Latin America poor? How can poverty in Latin America be addressed? What could it mean for nations in Latin America to take small steps of self-determination and embark on a path of liberation? These questions and others are addressed by thinking through theory within the Latin American philosophical tradition. In the process students gain a sense of what it's like to philosophize from a Latin American perspective. PHL 103 or ASI 120 or equivalent.

PHL 380. Language & Our World. 3 Hours

No description available.

PHL 381. Sexual Ethics. 3 Hours

This course will cover various philosophical issues in sexual ethics, including the following: the proper meaning and role of sex within human life; the existence and content of any "natural law(s)" governing sexual activity; the relations between sex, love, and marriage; the meaning and value of sexual freedom; the moral status of homosexuality and same-sex marriage; the meaning and importance of sexual consent; sexual objectification; and the commodification of sex and (mostly) women's bodies in prostitution and pornography. Special attention will be devoted both to Catholic perspectives and to contemporary feminist perspectives on sexual ethics.

PHL 382. Culture, Modernization, and Multiple Modernities. 3 Hours

The course surveys representative and contending theories of modernization with the view of unraveling the role of values and beliefs in the modernization process. It reexamines the role of culture in light of the emergence of a globalized world and the associated rise of diverse modernities. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 383. Ethics of Scientific Research. 3 Hours

Inquiry into the main ethical problems of scientific research and the moral principles for resolving them. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 3XG. Non-equivalent transfer. 0-99 Hours**PHL 440. Seminar - Advanced Problems in Philosophy. 3 Hours**

Detailed examination of some of the more technical problems of philosophy as well as those problems that arise in interdisciplinary settings upon which philosophers have brought their technical skills to bear. May be repeated when topic varies. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 451. Seminar - Individual Philosophers. 3 Hours

Detailed examination of the thought of an individual philosopher (e.g., Aquinas, Kant, Rawls, Quine) who is of sufficient importance to warrant special study. May be repeated when topic varies. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 461. Seminar - Contemporary Epistemology. 3 Hours

Study of recent philosophical work in the theory of knowledge inclusive of scepticism, knowledge and belief, evidence and justification, theories of perception and knowledge, human interests and valuation. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 462. Seminar - Contemporary Ethics. 3 Hours

Study of recent philosophical work in ethics inclusive of an analysis of ethical concepts, theories of normative ethics, theories of human action, and moral justification. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 463. Seminar - Contemporary Metaphysics. 3 Hours

Study of recent work in metaphysics inclusive of the nature of metaphysics, causality, free will and determinism, personal identity and the theory of mind and body. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

PHL 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

PHL 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

PHL 480. Senior Capstone. 0 Hours

PHILOSOPHY SENIOR CAPSTONE CAPSTONE AND PRESENTATION Project and presentation in the scholarship, activity and/or practice related to the major. Students will present their work in a forum appropriate to the major. Prerequisite(s): SENIOR STANDING.

PHL 490. Directed Readings. 1-4 Hours

Guided independent study primarily for philosophy majors but open to students who have completed twelve semester hours in philosophy. Normally three semester hours but in certain cases the chairperson may approve one, two, or four semester hours. May be repeated when topic changes. Prerequisite(s): PHL 103 or ASI 120 or equivalent; permission of department chairperson and instructor.

PHL 492. Directed Research. 3 Hours

Faculty-directed research for philosophy majors who have completed all 300-level requirements and at least one 400-level seminar. Students will write a substantial paper in relation to this research. Prerequisite(s): PHL 103 or ASI 120 or equivalent; permission of department chairperson and instructor.

PHL 495. Internship. 1-3 Hours

Supervised practical and professional experience related to philosophy for philosophy majors who have completed prescribed course work. May be repeated to a maximum of three semester hours. Grading Option Two only. Prerequisite(s): PHL 103 or ASI 120, PHL 302, PHL 350, PHL 352; one 400-level seminar; permission of department chairperson.

Physics

- Bachelor of Science, Physical Science (p. 246)
- Bachelor of Science, Physics (p. 247)
- Bachelor of Science, Physics-Computer Science (p. 248)

Minor

- Physics (p. 248)

The program leading to the Bachelor of Science with a major in physics is designed to provide a strong yet versatile basis for a subsequent scientific career or advanced study. Minimum requirements for all majors are listed below, but students planning for graduate work in physics or an allied area are advised to select additional mathematics and physics courses. A physics major must complete all 300-400-level courses with a 2.0 minimum grade-point average.

Students have the option of adding a multidisciplinary concentration in electro-optics to their physics degree. The concentration is appropriate for physics majors who wish to pursue possible careers in photonics or graduate degrees in the area of optics.

PHY, PSC, and PCS majors are required to attain a grade of C- or better in all physics and math courses that are prerequisite courses for physics courses required of majors.

A minor in physics consists of twelve semester hours.

Faculty

John E. Erdei, Chairperson
Distinguished Service Professor: O'Hare
Professors Emeriti: Berney, Craver, Graham, Kepes, Miner, O'Hare, Yaney
Professors: Brecha, Elhamri, Ewvaraye, Pedrotti
Associate Professors: Ahoujja, J. Erdei, Smith
Assistant Professors: Agha, Chong, Mathews, Plick, Sudakov, Zhao
Lecturers: Kariyawasam, Merithew
Lab Instructors: Ballard, Schaurer

Bachelor of Science, Physical Science (PSC) minimum 120 hours

The Physical Science Program is administered by the Department of Physics. It provides a broad training in the physical sciences that is desirable for one who plans to pursue a goal built on a composite science background. The physical science major combines adequate physics, chemistry, geology, and mathematics to provide a sound working knowledge of physical science. Since the program is less specialized than one in a single science, it has provision for adequate course selections and sufficient electives to provide the opportunity for

concentrated study in a discipline chosen to meet the career objectives of the individual student.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

CPS 132 or CPS 150	Computer Programming for Engineering & Science Algorithms & Programming I	3
MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 219	Applied Differential Equations	3

Major Requirements

(Satisfies CAP Natural Science)		54
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
GEO 115 & 115L	Physical Geology and Physical Geology Laboratory	4

GEO 116 & 116L	Geological History of the Earth and Geological History of the Earth Laboratory	4
PHY 206	General Physics I - Mechanics	3
PHY 207	General Physics II - Electricity & Magnetism	3
PHY 208	General Physics II I- Thermodynamics, Waves, and Fluids	3
PHY 210L	General Physics Laboratory I	1
PHY 211L	General Physics Laboratory II	1
PHY 480	Physics Capstone (Satisfies CAP Major Capstone)	1
Physical science courses (300/400 level) ¹		26

Breadth

ASI 150	Introduction to the University Experience	1
Social and Behavioral Sciences (includes CAP Social Science)		6
Total Hours to total at least		120

¹ At least twelve semester hours in physics.

Bachelor of Science, Physics (PHY) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variabl credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variabl credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CPS 132 or CPS 150	Computer Programming for Engineering & Science Algorithms & Programming I	3
MTH 168	Analytic Geometry & Calculus I (Satisfies CAP Mathematics)	4
MTH 169	Analytic Geometry & Calculus II	4
MTH 218	Analytic Geometry & Calculus III	4
MTH 219	Applied Differential Equations	3
MTH 310	Linear Algebra & Matrices	3

Major Requirements

Select one concentration from:

General Physics Concentration		37
PHY 206	General Physics I - Mechanics	3
PHY 207	General Physics II - Electricity & Magnetism	3
PHY 208	General Physics II I- Thermodynamics, Waves, and Fluids	3
PHY 210L	General Physics Laboratory I	1
PHY 211L	General Physics Laboratory II	1
PHY 301	Thermal Physics	3
PHY 303	Intermediate Mechanics I	3
PHY 333	Digital & Analog Electronics for Scientists	3
PHY 390	Introduction to Quantum Mechanics	3
PHY 408	Intermediate Electricity & Magnetism I	3
PHY 430	Advanced Lab I	2
PHY 431	Advanced Lab II	2
PHY 480	Physics Capstone (Satisfies CAP Major Capstone)	1
PHY electives (300/400 level)		6

Physics and Electro-Optics Concentration		43
ECE 443	Introduction to Electro-Optics	3
PHY 206	General Physics I - Mechanics (Applies to Cap Natural Science)	3
PHY 207	General Physics II - Electricity & Magnetism	3
PHY 208	General Physics II I- Thermodynamics, Waves, and Fluids	3
PHY 210L	General Physics Laboratory I	1
PHY 211L	General Physics Laboratory II	1
PHY 301	Thermal Physics	3
PHY 303	Intermediate Mechanics I	3
PHY 333	Digital & Analog Electronics for Scientists	3
PHY 390	Introduction to Quantum Mechanics	3
PHY 404	Physical Optics	3
PHY 408	Intermediate Electricity & Magnetism I	3
PHY 430	Advanced Lab I	2
PHY 431	Advanced Lab II	2
PHY 480	Physics Capstone (Satisfies CAP Major Capstone)	1
Select two courses from:		6
EOP 501	Geometric Optics	
EOP 502	Optical Radiation & Matter	

EOP 505	Introduction to Lasers
EOP 506	Electro-Optical Devices & Systems
or ECE 573	Electro-Optical Devices & Systems
EOP 514	Guided-Wave Optics
or ECE 574	Guided Wave Optics

Breadth

ASI 150	Introduction to the University Experience	1
Social Science and Behavioral Science (Includes CAP Social Science)		6
Total Hours to total at least		120

Bachelor of Science, Physics-Computer Science (PCS) minimum 120 hours

This combined program in physics and computer science leading to the Bachelor of Science with a major in Physics-Computer Science emphasizes the use of computer software in scientific applications and at the same time gives a foundation in the scientific disciplines of physics and computer science. Minimum requirements for the degree are listed below. Students are advised to select additional computer science, mathematics, and physics courses as electives. For further information contact the Physics Department.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103	West and the World
REL 103	Introduction to Religious and Theological Studies
PHL 103	Intro To Philosophy
ENG 100	Writing Seminar I ²
Second-Year Writing Seminar ³	0-3
ENG 200	Writing Seminar II
Oral Communication	3
CMM 100	Principles of Oral Communication
Mathematics	3
Social Science	3
SSC 200	Social Science Integrated
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Major Requirements	72
(Satisfies CAP Mathematics and CAP Natural Science)	

Computer Science ¹	26
CPS 150	Algorithms & Programming I
CPS 151	Algorithms & Programming II
CPS 250	Computer Organization and Architecture
CPS 346	Operating Systems I
CPS 350	Data Structures & Algorithms
Three CPS courses (340 level or above)	

Mathematics	18
MTH 168	Analytic Geometry & Calculus I
MTH 169	Analytic Geometry & Calculus II
MTH 218	Analytic Geometry & Calculus III
MTH 219	Applied Differential Equations
MTH 310	Linear Algebra & Matrices

Physics	28-30
PHY 206	General Physics I - Mechanics
PHY 207	General Physics II - Electricity & Magnetism
PHY 208	General Physics II I- Thermodynamics, Waves, and Fluids
PHY 210L	General Physics Laboratory I
PHY 211L	General Physics Laboratory II
PHY 323	Computational Physics
PHY 333	Digital & Analog Electronics for Scientists
PHY 480	Physics Capstone (Satisfies CAP Major Capstone)
Four PHY courses (300/400 level)	

Minor in Physics (PHY)

Physics	12
Select four PHY courses (300/400 level)	
Total Hours	12

- Bachelor of Science, Physical Science (p. 248)
- Bachelor of Science, Physics (p. 249)
- Bachelor of Science, Physics- Computer Science (p. 249)

Bachelor of Science, Physical Science

First Year	Hours	Spring	Hours
Fall			
ASI 150		1 PHY 207 & PHY 211L	4
PHY 206		4 CHM 124	3
& PHY 210L (CAP Natural Science w/lab)			
CHM 123		3 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)		4 PHL 103, HST 103, or REL 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)		3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3

HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3		
		18	17
Second Year			
Fall		Hours Spring	Hours
PHY 208		3 PHY elective	3
GEO 115 & 115L (CAP Natural Science w/lab)		4 GEO 116 & 116L	4
MTH 218		4 MTH 219	3
CHM 123L		1 CHM 124L	1
ENG 200 (CAP Writing Seminar)		3 CMM 100 (CAP Communication)	3
		SSC 200 (CAP Social Science)	3
		15	17
Third Year			
Fall		Hours Spring	Hours
PHY elective		3 PHY elective	3
PHY elective		3 PHY elective	3
CPS 132 or 150		3-4 Social Science - elective	3
CAP Arts		3 CAP Advanced Philosophy/Religious Studies	3
CAP Faith Traditions		3 CAP Advanced Historical Studies	3
		15-16	15
Fourth Year			
Fall		Hours Spring	Hours
PHY 480 (Satisfies CAP Major Capstone)		1 PHY elective	3
PHY elective		3 PHY elective	3
PHY elective		2 CAP Integrative	3
CAP Inquiry		3 CAP Diversity and Social Justice	3
CAP Adv. Philosophy/Practical Ethical Action		3 General Elective (optional)	3
General Elective		1	
General Elective (optional)		3	
		16	15

Total credit hours: 128-129

Bachelor of Science, Physics

First Year			
Fall		Hours Spring	Hours
ASI 150		1 PHY 207 & PHY 211L	4
PHY 206 & PHY 210L (CAP Natural Science w/lab)		4 CHM 124	3
CHM 123		3 MTH 169	4
MTH 168 (Satisfies CAP Mathematics)		4 PHL 103, REL 103, or HST 103 (CAP Humanities Commons)	3

ENG 100 (CAP Humanities Commons)		3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)		3	
		18	17
Second Year			
Fall		Hours Spring	Hours
PHY 208		3 PHY 303	3
MTH 218		4 MTH 219	3
CPS 132 or 150		3-4 CHM 124L	1
CHM 123L		1 CMM 100 (CAP Communication)	3
ENG 200 (CAP Writing Seminar)		3 SSC 200 (CAP Social Science)	3
		CAP Natural Science	3
		14-15	16
Third Year			
Fall		Hours Spring	Hours
PHY 301		3 PHY 408	3
PHY 333		3 PHY elective	3
PHY 390		3 Social Science - elective	3
MTH 310		3 CAP Adv. Philosophy/Practical Ethical Action	3
CAP Faith Traditions		3 CAP Advanced Historical Studies	3
		15	15
Fourth Year			
Fall		Hours Spring	Hours
PHY 480 (Satisfies CAP Major Capstone)		1 PHY 431	2
PHY 430		2 PHY elective	3
CAP Arts		3 CAP Integrative	3
CAP Inquiry		3 CAP Diversity and Social Justice	3
CAP Advanced Philosophy/Religious Studies		3 General Elective (optional)	3
General Elective		3 General Elective (optional)	3
		15	17

Total credit hours: 127-128

Bachelor of Science, Physics-Computer Science

First Year			
Fall		Hours Spring	Hours
ASI 150		1 PHY 207	3
PHY 206 (CAP Natural Science)		3 CPS 151	4
CPS 150		4 MTH 169	4

MTH 168 (Satisfies CAP Mathematics)	4 PHL 103, REL 103, or HST 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103, PHL 103, or HST 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3	
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Second Year		
Fall	Hours Spring	Hours
PHY 208	3 PHY 323	3
CPS 250	3 CPS 350	3
MTH 218	4 MTH 219	3
PHY 210L (CAP Natural Science lab)	1 PHY 211L	1
ENG 200 (CAP Writing Seminar)	3 CMM 100 (CAP Communication) CAP Natural Science	3
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	14	17
Third Year		
Fall	Hours Spring	Hours
PHY 333	3 CPS 346	3
MTH 310	3 PHY elective	3
CPS elective	3 CPS elective	3
PHY elective	3 Social Science - elective	3
SSC 200 (CAP Social Science)	3 CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3
<hr/>		
	15	15
Fourth Year		
Fall	Hours Spring	Hours
PHY 480 (Satisfies CAP Major Capstone)	1 PHY elective	3
CPS elective	3 CAP Integrative	3
PHY elective	3 CAP Adv. Philosophy/Religious Studies (Practical Ethical Action/Faith Traditions)	3
CAP Arts	3 CAP Diversity and Social Justice	3
CAP Inquiry	3 General Elective (optional)	3
CAP Advanced Historical Studies	3	
<hr/>		
	16	15

Total credit hours: 126

Courses

PHY 100. Seminar. 0 Hours

Opportunity to become acquainted with the broad spectrum of modern science through periodic meetings with the entire department. Invited speakers, films, student presentations, book reviews, and informal discussions. For all physics, physical science, and physics-computer science majors.

PHY 105. Physical Science - Energy & the Environment. 3 Hours

General introduction to principles of physics including motion, energy, thermodynamics, electricity and magnetism, and nuclear physics. Applications of these principles to non-renewable and renewable energy systems and the climate. Intended for business students.

PHY 108. Physical Science of Light & Color. 3 Hours

Conceptual study of physical science with emphasis on light, color, and the interaction of light with materials.

PHY 108L. Light & Color Laboratory. 1 Hour

Laboratory experiences to accompany PHY 108. Corequisite(s): PHY 108.

PHY 201. College Physics I. 3 Hours

Topics from mechanics, thermal and mechanical properties of matter, wave motion, and sound without the formalism of calculus.

PHY 201L. College Physics Laboratory I. 1 Hour

Algebra-based introductory laboratory. Experimental scientific techniques and the use of standard laboratory equipment. One two-hour period each week. Corequisite(s): PHY 201 or PHY 206.

PHY 202. General Physics. 3 Hours

Continuation of PHY 201 with a treatment of electricity and magnetism, wave motion and properties of light, atomic and nuclear physics. Second term, each year. Prerequisite(s): PHY 201.

PHY 202L. General Physics Laboratory. 1 Hour

Experimental scientific techniques and the use of standard laboratory equipment. One two-hour period per week. Second term, each year. Prerequisite(s): PHY 201L.

PHY 203. Modern Technical Physics. 3 Hours

Introduction to selected topics in modern physics without the formalism of calculus. For engineering technology students. Prerequisite(s): College algebra, trigonometry, and introductory statics and dynamics.

PHY 203L. Technical Physics Laboratory. 1 Hour

Laboratory experiences to accompany PHY 203.

PHY 206. General Physics I - Mechanics. 3 Hours

Calculus-based introductory course in mechanics. Three lectures, one recitation each week. Corequisite(s): MTH 138, MTH 148 or MTH 168.

PHY 207. General Physics II - Electricity & Magnetism. 3 Hours

The basic principles of electricity and magnetism. Three lectures, one recitation each week. Prerequisite(s): PHY 201 or PHY 206. Corequisite(s): MTH 149 or MTH 169.

PHY 208. General Physics III - Mechanics of Waves. 3 Hours

Introduction to wave phenomena (including sound, light, and matter waves) leading to basic concepts in modern physics. Prerequisite(s): (MTH 149; PHY 202) or (MTH 169; PHY 207).

PHY 210L. General Physics Laboratory I. 1 Hour

Introduction to laboratory methods, handling of data, and analysis of results. Experiments appropriate to the background of students with an interest in mathematical and physical sciences. Two hours laboratory, one hour recitation each week. Corequisite(s): PHY 206.

PHY 211L. General Physics Laboratory II. 1 Hour

Laboratory methods, data handling, and analysis of results. Experiments appropriate to the background of students with an interest in mathematical and physical sciences. Two hours laboratory, one hour recitation each week. Prerequisite(s): PHY 210L. Corequisite(s): PHY 207.

PHY 220. Energy & Environmental Physics. 3 Hours

Introduction to the physical basis of energy systems and the climate. Topics covered will include thermodynamics, planetary radiation balance, heat transfer, basic atmospheric and ocean physics, nuclear energy, renewable energy, modeling of carbon emissions from fossil fuels, simple climate models, monitoring climate change, and mitigation strategies. Prerequisite(s): PHY 206.

PHY 232. The Physics of Waves. 3 Hours

Physical concept and mathematical relations describing wave phenomena in a variety of physical systems. Topics include oscillation in mechanical and electrical systems, mechanical and electromagnetic waves, geometrical and physical optics and matter waves. Designed for electrical and computer engineering students, but open to all meeting the prerequisites. Prerequisite(s): PHY 206; MTH 169 (may be taken as a corequisite).

PHY 250. Descriptive Astronomy. 3-4 Hours

Descriptive survey for students who have had little or no previous exposure to astronomy; material from ancient times to present, including pulsars and quasi-stellar objects.

PHY 295. Research Participation I. 1 Hour

No description available.

PHY 301. Thermal Physics. 3 Hours

Thermodynamical descriptions of many particle systems obtained from microscopic statistical considerations; laws of thermodynamics, kinetic theory of dilute gases, and Fermi-Dirac and Bose-Einstein statistics. Prerequisite(s): PHY 208 or PHY 232. Corequisite(s): MTH 219.

PHY 303. Intermediate Mechanics I. 3 Hours

The fundamental concepts of mechanics: virtual work, kinematics, special theory of relativity, Lagrange's equation and central forces, particle dynamics. Prerequisite(s): PHY 208 or PHY 232. Corequisite(s): MTH 219.

PHY 321. Atomic & Nuclear Physics. 3 Hours

Concepts and models of the structure of matter; atoms, ions, electrons and nuclei, radioactivity, interactions of radiation with matter, particle detection, accelerators, nuclear models, nuclear reactions and processes, and fundamental particles. Prerequisite(s): (PHY 208 or PHY 232) or permission of instructor.

PHY 323. Computational Physics. 3 Hours

The course will explore how computers are used in physics. Topics will include simulations of physical systems, numerical analysis, and the use of mathematical analysis packages (MATHCAD, for example.) Programming will be done in True BASIC and MATHCAD. Prerequisite(s): MTH 218; (PHY 208 or PHY 232).

PHY 333. Digital & Analog Electronics for Scientists. 3 Hours

Basic concepts of digital and analog integrated circuit electronics are developed as a way to understand modern microcomputer based instrumentation. A microcomputer based data collection and analysis system is used to study binary data input and output, analog to digital conversion (ADC) devices, digital to analog conversion (DAC) devices, and other digital integrated circuits and concepts. The analog electronics part of the course begins with a study of discrete analog devices and ends with operational amplifiers and their application. Two hours lecture and two hour laboratories each week. Prerequisite(s): (PHY 202L or PHY 211L) or equivalent.

PHY 390. Introduction to Quantum Mechanics. 3 Hours

Basic postulates of quantum mechanics with applications made to atomic physics. Prerequisite(s): MTH 219; (PHY 208 or PHY 232). Corequisite(s): MTH 310.

PHY 395. Research Participation I. 1-6 Hours

Individual projects conducted as part of the physics Undergraduate Research Participation program to encourage involvement of students with faculty researchers. Projects must be arranged in advance with faculty research directors.

PHY 399. Special Problems in Physics. 1-4 Hours

Special topical courses, laboratory, tutorial, or library work in areas of current interest. Students should consult the composite.

PHY 403. Intermediate Mechanics II. 3 Hours

Emphasis on solving physical problems; noninertial coordinate systems, rigid body motion, rotating systems, coupled systems, introductory fluid statics and dynamics, normal coordinates, and the descriptions of mechanics appropriate for the transition to wave mechanics. Prerequisite(s): PHY 303.

PHY 404. Physical Optics. 3 Hours

The electromagnetic wave theory of light, propagation of waves, reflection, refraction, dispersion, polarization, dichroism, birefringence, superposition of waves, interference, diffraction, Fourier optics. Prerequisite(s): MTH 219; (PHY 208 or PHY 232).

PHY 408. Intermediate Electricity & Magnetism I. 3 Hours

Electrostatics, Coulomb's law, Gauss's law, potential, dielectric materials, electrostatic energy, solutions to Laplace's and Poisson's equations, Biot-Savart law, Faraday induction law, magnetization, and Maxwell's equations. Prerequisite(s): MTH 219; (PHY 208 or PHY 232).

PHY 409. Intermediate Electricity & Magnetism II. 3 Hours

Further study of electric and magnetic fields with emphasis on solving problems; Maxwell's equations, propagation of electromagnetic waves, electromagnetic radiation. Prerequisite(s): PHY 408.

PHY 411. Topics in Modern Physics. 3 Hours

Elements of modern optics, solid state and other selected subjects. Consult chairperson for details. Prerequisite(s): PHY 390 or equivalent.

PHY 420. Introduction to Solid State. 3 Hours

Classification of solids, crystals and crystal structures, survey of lattice properties, free electron theory, band theory of solids, semi-conductors, and crystal imperfections. Prerequisite(s): MTH 219; (PHY 208 or 232); PHY 390.

PHY 430. Advanced Lab I. 2 Hours

No description available.

PHY 431. Advanced Lab II. 2 Hours

No description available.

PHY 440. Quantum Mechanics II. 3 Hours

Study of selected principles in quantum mechanics. Prerequisite(s): PHY 390.

PHY 450. Senior Project. 3 Hours

The senior project is a capstone experience for senior physics majors. It will consist of a research project of the student's choosing and will require both an oral and written report. The nature and scope of the project will be chosen in consultation with the student's advisor. Permission of the department chairperson is required. Senior physics majors only.

PHY 460. Seminar. 1 Hour

Presentation of papers by undergraduate students, faculty, and a guest lecturer on topics of concern to the modern physicist. Reviews of books and films appropriate to the group.

PHY 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

PHY 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

PHY 480. Physics Capstone. 1 Hour

This seminar course is the capstone for all physics majors. Students will complete an independent research project and present their results in written form and in a presentation. Students will learn about the variety of career paths available after completing an undergraduate physics degree, and how to engage in these career paths in an ethical manner.

PHY 495. Research Participation II. 1-6 Hours

Individual projects conducted as part of the physics Undergraduate Research Participation program to encourage involvement of students with faculty researchers. Projects must be arranged in advance with faculty research directors.

PHY 499. Special Problems in Physics. 1-6 Hours

Laboratory, tutorial, or library work in one of such selected topics as solid state physics, polymers, atomic and nuclear physics, modern optics, theoretical physics, surface physics, or general physics. Prerequisite(s): Permission of department chairperson.

Political Science

Majors:

- Bachelor of Arts, Human Rights Studies (p. 252)
- Bachelor of Arts, Political Science (p. 254)

Minors:

- Human Rights Studies (p. 255)

- Political Science (p. 255)

The Department of Political Science offers a Bachelor of Arts with a major in Political Science and a Bachelor of Arts with a major in Human Rights Studies. Minors in political science and human rights studies are also offered.

- A major in political science requires 39 semester hours of political science courses.
- A major in human rights studies requires 45 to 57 semester hours of courses in the humanities and the social sciences.
- A minor in political science consists of 15 semester hours. Courses selected by students should strengthen academic or career objectives.
- A minor in human rights studies consists of 18 semester hours. Courses selected should strengthen academic or career objectives.

Minors and Teacher Licensure

A student majoring in political science can acquire teacher licensure through the dual-degree B.A. and B.S.E. program conducted in conjunction with the Department of Teacher Education in the School of Education and Health Sciences, or minor in any related discipline within the College of Arts and Sciences. The student must consult with the department administering the discipline for the particular requirements of a minor.

Faculty

Grant W. Neeley, Chairperson

Director of Human Rights Studies Program: Natalie Hudson

Director of Master of Public Administration: Michelle Pautz

Director of Graduate Certificate in Nonprofit & Community Leadership: Steve Neiheisel

Professors Emeriti: Ahern, Fogel, Inscho, Karns, Lapitan, Nelson

Professors: Ingram, Pierce

Associate Professors: Bilocerkowycz, Ensalaco, Ghere, Hudson, Miller, Neeley, Pautz, Watkins

Assistant Professors: Ambrosius, Devine, Pruce

Lecturers: Birdsong, Neiheisel, Talbott

Bachelor of Arts, Human Rights Studies (HRS) minimum 124 hours

The Bachelor of Arts in Human Rights Studies is an integrated pre-professional degree firmly grounded in the traditional liberal arts. Students, faculty, and staff participating in the program enter into it guided by their fundamental commitment to respect and promote the dignity of each human person. The degree is intended to produce intellectually adept students who are capable of performing rigorous research and conducting high quality analysis of critical questions in the area of human rights studies. It is equally intended to produce thoughtful and transformational servant-leaders who will apply the knowledge and skills obtained in the program to contemporary human rights issues and situations both domestically and internationally. Through the integration of liberal and pre-professional education, the interdisciplinary program prepares distinctive graduates who intend to pursue advanced study and training in the field of human rights, or careers in human rights advocacy and humanitarian assistance. Those graduates will possess the values, knowledge and skills necessary for effective public service in:

- Government agencies
- Non-governmental organizations

- International aid agencies
- Non-profit groups in human rights or humanitarian assistance

Courses taken for the major may also count toward completion of the Common Academic Program and the Liberal Studies Curriculum.

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variabl credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variabl credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
³ Completed with ENG 200H or ASI 120.
⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English) ¹	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Sciences)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements ²

ASI 397 Capstone Seminar in Human Rights Studies (Satisfies CAP Major Capstone)	3
CMM 355 Rhetoric of Social Movements	3
HST 312 Age of Democratic Revolutions	3
PHL 371 Philosophy & Human Rights	3
POL 305 Introduction to Public Administration	3

POL 333 Politics of Human Rights	3
POL 334 Politics of Human Rights II	3
POL 406 International Law & Organization	3
REL 363 Faith & Justice	3
SOC 371 Sociology of Human Rights	3
Select one course from:	3
CMM 412 Research Methods in Communication	
HST 301 Research Methods Seminar	
POL 207 Political Analysis	
SOC 208 Social Research Methods	
Select one course from three different concentrations:	9
Anthropology	
ANT 360 Making of Modern South Asia	
Criminal Justice Studies	
CJS 336 Comparative Criminal Justice Systems	
Economics	
ECO 460 Economic Development & Growth	
History	
HST 334 History of the Palestinian-Israeli Conflict	
HST 337 History of Africa - 19th Century to the Present	
HST 356 Topics in Transnational Feminist History	
HST 361 U.S. Legal & Constitutional History II	
HST 399 History of Blacks in the United States Since 1900	
Philosophy	
PHL 314 Philosophy of Law	
PHL 317 Ethics of War	
PHL 327 Philosophy of Peace	
PHL 370 Political Philosophy	
PHL 372 Values & Economics	
Political Science	
POL 300 Political Issues ³	
POL 319 Twentieth-Century Political Thought	
POL 331 Nationalism & Ethnopolitics (Satisfies CAP Social Science)	
POL 361 Leadership in Nongovernmental Organizations	
POL 450 Civil Liberties	
POL 452 Political Violence	
Religious Studies	
REL 358 Liberation Theologies	
REL 360 Christian Ethics	
REL 366 The Holocaust: Theological & Religious Responses	
Sociology	
SOC 326 Law & Society	
SOC 328 Racial & Ethnic Relations	
SOC 339 Social Inequality	
SOC 345 Sociology of Extremism	
SOC 368 Immigration & Immigrants	
SOC 435 Sociology of Globalization	
Spanish	
SPN 380 Spanish & Ibero-American Cinema	
SPN 480 Spanish & Ibero-American Cinema	
Experiential or Research Requirement	3-6

Select one course (for a total of 3 semester hours):	
CMM 390	Independent Study
HST 496	Independent Study
PHL 492	Directed Research
POL 431	Independent Study & Research
POL 495	Internship
SOC 409	Senior Project Capstone
SOC 498	Independent Study
Or complete an Honors Thesis (for a total of 6 semester hours):	
CMM 477 & CMM 478	Honors Thesis Project and Honors Thesis Project
HST 477 & HST 478	Honors Thesis Project and Honors Thesis Project
PHL 477 & PHL 478	Honors Thesis Project and Honors Thesis Project
POL 477 & POL 478	Honors Thesis Project and Honors Thesis Project
REL 477 & REL 478	Honors Thesis Project and Honors Thesis Project
SOC 477 & SOC 478	Honors Thesis Project and Honors Thesis Project

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

¹ Majors must demonstrate proficiency in a foreign language by passing a University proficiency examination or by completing a language course at the 141 level or higher with a minimum grade of C in one of the following languages:

- Arabic
- French
- German
- Italian
- Mandarin Chinese
- Russian
- Spanish

² May include CAP Components.

³ This course can only be counted when taught as International Political Economy.

Bachelor of Arts, Political Science (POL) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3

Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences, excluding POL courses (Includes CAP Social Science)	12

Major Requirements 39

POL 200	Introduction to Political Science	3
POL 201	The American Political System	3
POL 202	Introduction to Comparative Politics	3
or POL 214	Introduction to International Politics	
POL 207	Political Analysis	3
POL 316	American Political Thought	3
or POL 317	Development of Political Theory	
or POL 319	Twentieth-Century Political Thought	
POL 499	Political Science Capstone (Satisfies CAP Major Capstone)	3
Select seven POL courses (May include CAP Components) ^{1,2}		21

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

¹ Including twenty-one semester hours at the 300/400 level.

² Students earning the B.A. in Political Science may count no more than six semester hours earned on internships (POL 495) toward the fulfillment of the degree requirements in POL. Students may, however, take additional hours of internship credit (POL 495) and count them toward the necessary 124 hours needed for graduation.

Minor in Human Rights Studies (HRS)

The interdisciplinary minor in Human Rights Studies provides students an opportunity to address issues related to human rights from various disciplinary approaches. The universal nature of human rights issues may directly relate to a major, while in other cases this minor will provide an opportunity for broadening one's exposure to these important topics.

The Human Rights Studies minor requires 18 semester hours. It is recommended that the required course be taken in the sophomore year. Students should consult with the Director of Human Rights Studies to ensure that the courses selected from the elective pool display a significant degree of coherence. Courses taken from this minor may be applied to other minors and to breadth and general education requirements.

Human Rights Studies

POL 333	Politics of Human Rights	3
POL 334	Politics of Human Rights II	3
Select one course from:		3
PHL 371	Philosophy & Human Rights	
REL 363	Faith & Justice	
Select one course from:		3
ANT 325	Anthropology of Human Rights	
SOC 371	Sociology of Human Rights	
Select two courses from: ^{1,2}		6
ANT 325	Anthropology of Human Rights	
ANT 360	Making of Modern South Asia	
ANT 368	Immigration & Immigrants	
CJS 336	Comparative Criminal Justice Systems	
CMM 355	Rhetoric of Social Movements	
ECO 460	Economic Development & Growth	
HST 312	Age of Democratic Revolutions	
HST 334	History of the Palestinian-Israeli Conflict	
HST 337	History of Africa - 19th Century to the Present	
HST 356	Topics in Transnational Feminist History	
HST 361	U.S. Legal & Constitutional History II	
HST 399	History of Blacks in the United States Since 1900	
PHL 314	Philosophy of Law	
PHL 317	Ethics of War	
PHL 327	Philosophy of Peace	
PHL 370	Political Philosophy	
PHL 371	Philosophy & Human Rights	
PHL 372	Values & Economics	
POL 300	Political Issues ³	
POL 305	Introduction to Public Administration	
POL 319	Twentieth-Century Political Thought	
POL 331	Nationalism & Ethnopolitics	
POL 406	International Law & Organization	
POL 450	Civil Liberties	
POL 452	Political Violence	
REL 358	Liberation Theologies	
REL 360	Christian Ethics	
REL 363	Faith & Justice	
REL 366	The Holocaust: Theological & Religious Responses	

SOC 326	Law & Society
SOC 328	Racial & Ethnic Relations
SOC 339	Social Inequality
SOC 345	Sociology of Extremism
SOC 368	Immigration & Immigrants
SOC 371	Sociology of Human Rights
SOC 435	Sociology of Globalization

- 1 At least one course must be from CMM, HST, PHL, or REL.
- 2 Select any course that has not been already used to fulfill other Human Rights Studies Minor requirements.
- 3 This course can only be counted when the topic is relevant to human rights.

Minor in Political Science (POL)

Political Science

POL 201	The American Political System	3
Select four POL courses (300/400 level)		12
Total Hours		15

- Bachelor of Arts, Human Rights (p. 255)
- Bachelor of Arts, Political Science (p. 256)

Bachelor of Arts, Human Rights

First Year	Hours Spring	Hours
Fall		
ASI 150	1 REL 103 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3 ENG 100 (CAP Humanities Commons)	3
PHL 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3
MTH 114 or 207 (Satisfies CAP Mathematics)	3 INSS (CAP Natural Science w/lab)	4
POL 101	Language 141	4
Language 101	4	
	14	17
Second Year		
Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 HST 312 (CAP Advanced Historical Studies)	3
ANT 150 (CAP Inquiry, Diversity and Social Justice; Social Science - intro level)	3 CMM 355	3
INSS (CAP Natural Science w/lab)	4 PHL 371	3
CAP Arts / Creative and Performing	3 POL 305	3
Language 201 or contextual course	3 INSS Natural Science	3
	16	15

Third Year		
Fall	Hours Spring	Hours
POL 333	3 ANT 360 (CAP Integrative; Social Science - 300/400 level)	3
POL 334	3 HST 334	3
REL 363	3 POL 300	3
SOC 371 (Social Science - elective)	3 SSC 200 (CAP Social Science)	3
POL 207 or SOC 208	3 CAP Faith Traditions	3
		15
Fourth Year		
Fall	Hours Spring	Hours
POL 406	3 ASI 397 (Satisfies CAP Major Capstone)	3
POL 495	3 CAP Advanced Philosophy/Religious Studies	3
CAP Advanced Philosophy/Religious Studies	3 CAP Integrative	3
Literature	3 CAP Practical Ethical Action	3
General elective	3 General elective	3
		15

Total credit hours: 122

Bachelor of Arts, Political Science

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3 PHL 103 (CAP Humanities Commons)	3
REL 103 (CAP Humanities Commons)	3 POL 201	3
POL 200	3 MTH 114 (Satisfies CAP Mathematics)	3
CMM 100 (CAP Communication)	3 Language 141	4
Language 101	4	
		17
Second Year		
Fall	Hours Spring	Hours
POL 202 or 214	3 ENG 200 (CAP Writing Seminar)	3
POL 207	3 SSC 200 (CAP Social Science)	3

PSY 101, SOC 101, or SOC 204 (Social Science intro - level)	3 INSS (CAP Natural Science w/lab)	4
INSS (CAP Natural Science w/lab)	4 POL elective	3
Language 201 or contextual course	3 Upper level SOC, PSY, or ECO	3
		16

Third Year		
Fall	Hours Spring	Hours
POL 316, 317, or 319	3 Social Science (Elective not POL)	3
POL elective	3 POL elective	3
CAP Faith Traditions	3 CAP Inquiry	3
CAP Diversity and Social Justice	3 CAP Advanced Philosophy/Religious Studies	3
INSS Natural Science	3 CAP Practical Ethical Action	3
		15

Fourth Year		
Fall	Hours Spring	Hours
POL 499 (Satisfies CAP Major Capstone)	3 POL elective	3
POL elective	3 POL elective	3
CAP Integrative	3 CAP Arts / Creative and Performing	3
Social Science - elective	3 CAP Advanced Philosophy/Religious Studies	3
Literature	3 CAP Advanced Historical Studies	3
POL elective	3	
		18

Total credit hours: 128

Courses

POL 200. Introduction to Political Science. 3 Hours

Study of the dominant theoretical approaches, central questions and concepts, and history of political science. Political Science majors only.

POL 201. The American Political System. 3 Hours

Study of the American political system, its attitudinal and constitutional base, its structure and processes.

POL 202. Introduction to Comparative Politics. 3 Hours

Analysis of major concepts and approaches in the study of comparative government and politics.

POL 207. Political Analysis. 3 Hours

Introduction to the basic concepts and processes of research in political science.

POL 214. Introduction to International Politics. 3 Hours

Analysis of the dynamic forces of conflict and cooperation in world politics.

POL 300. Political Issues. 3 Hours

Introductory examination of contemporary political issues selected by the instructor, such topics as welfare, political morality, political campaigns, institutional reform, and political economy.

POL 301. The American Judicial Process. 3 Hours

Study of the judicial process as part of the political system. Focus on the participants (police, lawyers, judges, interest groups, litigants, jurors) and the process (criminal, civil, and appellate proceedings).

POL 303. State & Local Government. 3 Hours

Comparative study of the political institutions, processes, and systems of the fifty states and their effect on the content and administration of selected public policies, programs, and services.

POL 305. Introduction to Public Administration. 3 Hours

Basic principles of organization and management in executive departments of government at all levels; questions of planning, leadership, and control.

POL 306. Public Policy Analysis. 3 Hours

Introduction to public policy-making systems and the methodology of policy analysis; theories of policy formulation, the policy-making process, means for measuring policy effectiveness, analysis of proposals for policy change.

POL 307. The Politics of Bureaucracy & Regulation. 3 Hours

Examination of the nature and meaning of bureaucracy in contemporary American society, its relationship to the private sector, and the devices for its evaluation and control.

POL 308. Morality Policy. 3 Hours

Introduction to the morality-based public policy debate with comparison of morality policy (e.g. abortion, drugs, gay rights, pornography) and traditional forms of public policy; study of the moral basis underlying current political topics and debate.

POL 310. Political Parties, Campaigns & Elections. 3 Hours

Analysis of the history, nature, and function of political parties and their role in the political system in both a domestic and comparative context.

POL 311. Public Opinion & Political Behavior. 3 Hours

The formation, maintenance, change, and impact of public opinion on the American political system; the role of theory and analysis of data in understanding public and political behavior.

POL 313. The American Presidency. 3 Hours

Study of the American presidency, the development of presidential powers, and its leadership role in the political system.

POL 314. Interest Group Politics. 3 Hours

Exploration of the role of interest groups in the American political system through an examination of their internal organization and their roles in the electoral and policy making processes at the national, state and local levels. Prerequisite(s): POL 201.

POL 316. American Political Thought. 3 Hours

An exploration and critical investigation of selected actors, thinkers, texts, ideas and movements in American political thought and theory from the colonial period to the present. Topics may include the founding, the age of Jackson, the Civil War, Progressivism, Women's Suffrage, the New Deal, the Cold War, the Civil Rights Movement, the 1960s, and others.

POL 317. Development of Political Theory. 3 Hours

Analysis of selected theorists and political doctrines forming the tradition of Western thought on politics. Theorists including Plato, Aristotle, the Stoics, Augustine, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Mill, Marx, Spencer, Lenin, Gasset, and Camus presented in their historical and socio-political contexts.

POL 318. Public Integrity & Political Leadership. 3 Hours

Analysis of contemporary leadership issues related to integrity and values in political office-holding, public service, and global governance contexts. Prerequisite(s): CMM 201 or (POL 201 or POL 202 or POL 214) or permission of instructor.

POL 319. Twentieth-Century Political Thought. 3 Hours

Analysis of selected political theorists, concepts, and movements from the late nineteenth century to the present. Thinkers and concepts may include Marx, Nietzsche, Sartre, Camus, Freud, Arendt, Strauss, the Frankfurt School, Fanon, Foucault, Rawls, Rorty, existentialism, feminism, colonialism, post-modernity, liberalism, neo-conservatism among others.

POL 320. Comparative Politics: Western Europe. 3 Hours

Analysis of governmental institutions and political processes of Western Europe.

POL 321. Comparative Politics: Russia & the New States. 3 Hours

Analysis of governmental institutions and political processes of Russia and the New States.

POL 323. Comparative Politics: Latin America. 3 Hours

Analysis of governmental institutions and political processes of Latin America.

POL 331. Nationalism & Ethnopolitics. 3 Hours

An analysis of the politics of nationalism and ethnicity and their impact on social justice. Diverse case studies (US, Russia, Northern Ireland, Israeli-Palestinian) and institutions (European Community, United Nations) will be explored.

POL 333. Politics of Human Rights. 3 Hours

Examines the evolution of international human rights norms and the creation of the institutions for the protection and promotion of human rights, and case material relating to each category of internationally recognized human rights.

POL 334. Politics of Human Rights II. 3 Hours

This research seminar examines select topics related to the protection and promotion of human rights. This course is required for all Human Rights Studies majors. The research seminar adopts a case-study approach that enables students to analyze the complex social, economic, cultural, and political factors that impede the full realization of internationally recognized human rights, and to critically evaluate the effectiveness of the advocacy strategies used by inter-governmental human rights bodies and non-governmental human rights organizations. Thus, this seminar is designed to enable students to connect human rights theory and practice. Part I (Overview) provides a more in-depth examination of the material covered in POL 333 (the Politics of Human Rights I). Part II (Case Studies) examines critical contemporary issues and covers the full range of civil, political, economic, social, and cultural rights. Students will collaborate on team research projects and produce a final Human Rights Report containing an analysis of a specific situation of the violation of human rights, findings of fact, and recommendations aimed at rectifying the situation. Students will present and defend their team reports and present in class at the end of the semester. Prerequisite(s): POL 333.

POL 335. United States National Security Policy. 3 Hours

Analysis of various political, economic, and military issues and problems relating to U.S. national security.

POL 336. United Nations System: Theory and Practice. 3 Hours

Introduction to the United Nations system with detailed case studies of specific countries, issues, and policies. Course also serves to prepare students for participation in the National Model United Nations Conference. Prerequisite(s): SSC 200.

POL 340. Gender & International Relations. 3 Hours

An examination of feminist approaches to the study of international politics and the influence of gender roles on notions of international peace, security, power, development, democracy, human rights, transnational advocacy, and conflict resolution. Prerequisite(s): (POL 101 or POL 214) or permission of instructor.

POL 341. Power, Gender & Performance. 3 Hours

Consideration of performances of identity and advocacy at the intersection of political power and gender as constructive responses to gender inequality. Performance protests for gender equality, and cultural performances of gender are examined in historical case studies and current events.

POL 350. Legislative Politics. 3 Hours

Study of the U.S. Congress, its organization and procedures, and its powers and influence in the political system.

POL 354. Political Campaign Communication. 3 Hours

Examination of theory and research on the role, processes and effects of communication in political campaigns with emphasis on mass media, public speaking, debates, advertising, and interpersonal communications. Prerequisite(s): CMM 100 and Sophomore standing.

POL 360. Urban Politics & Policy. 3 Hours

Study of the nature of urban political systems in the U.S. with emphasis on explanation of differences in their policy responses.

POL 361. Leadership in Nongovernmental Organizations. 3 Hours

Examination of management skills required of professionals in various types of nongovernmental organizations (NGOs) and how leaders integrate agency values and management processes to promote rights-related missions. HRS and POL majors or minors only or permission of the department chairperson.

POL 365. Disaster Policy & Administration. 3 Hours

Exploration of policy approaches and administrative response strategies related to various phases of disasters and security crises in the U.S. and international settings with attention to human rights issues. Prerequisite(s): POL 201 or permission of instructor.

POL 371. Environmental Policy. 3 Hours

Examination of environmental public policymaking and implementation in the United States. Students will apply knowledge of government and policy processes to specific environmental issues, analyze governmental response, and consider how action on those issues may be pursued.

POL 404. United States - Latin American Relations. 3 Hours

This course examines the foreign relations of the United States with other countries of the Western hemisphere. Political, economic and security issues are examined from both theoretical and historical perspectives. Prerequisite(s): (POL 210 or POL 214) or permission of instructor.

POL 406. International Law & Organization. 3 Hours

Study of rules governing the community of nations; their nature, sources, and development; the international agencies responsible for their development, interpretation, and administration. Prerequisite(s): POL 214 or permission of instructor.

POL 408. American Foreign Policy. 3 Hours

Critical study of the American foreign policy process and evaluation of the sources of American foreign policy. Prerequisite(s): (POL 201, POL 214) or permission of instructor.

POL 409. Russian Foreign Policy. 3 Hours

Analysis of the internal and external factors shaping the foreign policies of Russia and the independent republics.

POL 410. Comparative Foreign Policy. 3 Hours

Comparative analysis of the foreign policies of major states with emphasis on the process of policy development and on the national and international determinants of policy behaviors. Prerequisite(s): (POL 202 or POL 217) or permission of instructor.

POL 411. Constitutional Law. 3 Hours

Analysis of the role of the U.S. Supreme Court in its interpretation of the Constitution. Emphasis on the various methods of judicial interpretation as they affect such provisions as the commerce clause, the taxing and spending powers, due process, the dimensions of presidential and congressional authority, and the doctrine of judicial review. Prerequisite(s): POL 301 or permission of instructor.

POL 412. Comparative Law. 3 Hours

Explores how foreign judicial systems protect and promote civil and political rights through different constitutional designs. Prerequisite(s): POL 301.

POL 413. The Politics of Bureaucracy & Regulation. 3 Hours

Examination of the nature and meaning of bureaucracy in contemporary American society and the devices for its evaluation and control.

POL 421. Seminar in Political Science. 3 Hours

Seminar on current problems and issues in political science. May be taken more than once when content changes. Prerequisite(s): Political Science major; completed POL core courses.

POL 426. Leadership in Building Communities. 3 Hours

Investigation of the processes by which urban neighborhoods develop themselves from the inside out. Students cultivate their own interdisciplinary appreciation of urban communities through extensive interaction with one neighborhood's visioning process. Topics include asset-based community development, social capital, citizenship, adaptive leadership, and community building strategies and tools.

POL 431. Independent Study & Research. 1-6 Hours

Individual reading and research on selected topics under faculty direction. Recommended for seniors only. Prerequisite(s): POL 207 and permission of instructor or department chairperson.

POL 450. Civil Liberties. 3 Hours

Analytical examination of civil liberties in the U.S. with emphasis on the Supreme Court as arbiter in the endless conflict between the demand for individual liberty and the needs of constitutional authority. Prerequisite(s): (POL 301 or POL 411) or permission of instructor.

POL 452. Political Violence. 3 Hours

Consideration of theoretical approaches to understanding violent change in political institutions; the continuum between violence and nonviolence; revolution, revolt, campus dissent, and political assassination. Prerequisite(s): (POL 202 or POL 333) or permission of instructor.

POL 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

POL 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

POL 479. Selected Topics in Public Policy. 3 Hours

Intensive examination of policy process, outcomes, and impact in an area or areas of American public policy selected by the instructor; such topics as transportation, education, welfare, national defense, urban and community development, civil rights, and science and technology. May be repeated once when topic changes.

POL 495. Internship. 1-9 Hours

Supervised experience in government agencies and programs. Prelaw students are assigned to law firms and judicial chambers. Prerequisite(s): Permission of supervising professor.

POL 497. Service Learning Experience. 1 Hour

Supervised community research or service experience that complements a specific upper division course in Political Science. Repeatable up to three semester hours. No more than three semester hours of Social Science 497 credits can count toward graduation. Prerequisite(s): Permission of instructor. Corequisite(s): A 300-400 Political Science course.

POL 498. Political Science and Vocation. 0 Hours

Political Science as Vocation reflects on the purposes of life and proposed work through the language of vocation. For those majors writing an honors thesis, independent study, or completing a capstone in a second major. All others must take POL 499. Prerequisite(s): Senior standing and permission of the department chair.

POL 499. Political Science Capstone. 3 Hours

Project and presentation in the scholarship, activity and/or practice related to the major. Students will present their work in a forum appropriate to the major. Senior standing. Prerequisite(s): POL 207.

Prelaw

Minor:

- Prelaw (p. 259)

The Prelaw Program, designed to serve students from all areas of the University, provides undergraduates and alumni interested in law school with opportunities to acquire the knowledge and skills necessary for a successful legal career through both the Prelaw Studies minor as well as through an extensive variety of preprofessional services and resources designed to help students plan an intentionally developmental undergraduate academic path. While students interested in careers in law should choose undergraduate majors to match their interests and abilities, they should also contact and stay engaged with the Prelaw Program as early in their undergraduate careers as possible so they can receive effective prelaw advice.

Students can take advantage of one or both paths through the Prelaw Program. The interdisciplinary Prelaw Studies minor enhances the preparation of students planning to seek admission to law school by promoting both the development of skills considered essential by both law schools and legal professionals – critical reasoning, writing, and analytical skills – and professional skills. The Prelaw Program, i.e., the

Director, together with fifteen additional prelaw faculty advisors, provides students with curriculum guidance for developing the skills set needed for success in their future legal education and career, with law school admissions fairs, with aid in preparing for the Law School Admission Test (LSAT), including simulated tests and prep workshops, and with individual assistance in law school selection and law school applications. Moreover, the Program has a legal internship program and a Mock Trial team, both of which offer students valuable experiential learning, an undergraduate chapter of Phi Alpha Delta, a Prelaw Club, and other opportunities for development based on the individual student's talents, interests, and goals.

For further information concerning the Prelaw Program at the University of Dayton, students should contact the Prelaw Program in Alumni Hall, Room 117; phone (937) 229-4229 or at prelaw@udayton.edu.

Prelaw Committee

Laura H. Hume (History), Director

Agnew (International Studies), Alakkad (Engineering), Bednarek (History), Berry (Psychology), Bresnahan (Philosophy), Hoepf (Business Administration), Hudson (Human Rights Studies), Ingram (Political Science), Kimbrough (English), Lau (Management), Longazel (Sociology), Neeley (Political Science), Parsons (Communication), Picca (Criminal Justice Studies), Shafer (College of Arts and Sciences)

Minor in Prelaw (PLW)

PreLaw		20-22
Core Courses		
PLW 200	Legal Careers & Professional Development	1
PHL 302	Symbolic Logic	3
POL 301	The American Judicial Process	3
Additional Essential Skills Courses (13-15 hours)		
Writing Skills - select one course from:		3
ENG 316	Elements of Style	
ENG 370	Report & Proposal Writing	
ENG 371	Technical Communication	
ENG 372	Business and Professional Writing	
ENG 474	Argument and Style	
Quantitative Analysis Skills - select one from: ¹		3
ACC 207	Introduction to Financial Accounting	
ACC 208	Introduction to Managerial Accounting	
CMM 412	Research Methods in Communication	
DSC 210	Statistics for Business I	
DSC 211	Statistics for Business II	
ECO 203	Principles of Microeconomics	
MTH 148	Introductory Calculus I	
MTH 207	Introduction to Statistics	
PSY 216	Elementary Statistics	
SOC 308	Data Analysis	
Written Research Skills - select one from: ²		3
CJS 447	Senior Seminar in Criminal Justice Studies	
ENG 490	Research Seminar-Literature	
HST 301	Research Methods Seminar	
HST 498	History Capstone Seminar	
INS 499	Senior Capstone Seminar	
PHL 492	Directed Research	

Legal Vocabulary and Concepts - select one from:	3
CJS 305 Criminal Law	
CJS 315 Criminal Procedure	
MGT 201 Legal Environment of Business	
PHL 314 Philosophy of Law	
POL 411 Constitutional Law	
SOC 326 Law & Society	
Experiential Learning - complete 1-3 hours from the following: ³	1-3
CJS 495 Internship in Criminal Justice I	
POL 495 Internship	
PLW 301 Mock Trial I ⁴	
PLW 302 Mock Trial II ⁴	
PLW 495 Legal Internship	

- ¹ Other MTH courses may also apply with permission of program coordinator.
- ² May be completed with an Honors Thesis course in any academic department *or* with permission of the program coordinator any other course not listed that both teaches research methods *and* requires the student to research and write a substantial paper (12-page minimum length) will also fulfill this requirement.
- ³ Other internships may also apply with permission of program coordinator.
- ⁴ Must complete sequence in consecutive semesters over the course of one academic year.

Courses

PLW 200. Legal Careers & Professional Development. 1 Hour

Introduction to careers in various legal practice fields and the different employment options students will have with a law degree. Emphasis is on exploring personal motives and strengths as students consider preparing for law school and a legal career. Includes academic planning and professional behaviors development.

PLW 301. Mock Trial I. 1 Hour

Practice and performance of attorney and witness roles for Mock Trial National Competition case. Repeatable up to four semester hours.

PLW 302. Mock Trial II. 1 Hour

Practice and performance of attorney and witness roles for Mock Trial Regional and National competitions. Repeatable up to four semester hours. Prerequisite(s): PLW 301; invitation by mock trial coaches.

PLW 495. Legal Internship. 1-3 Hours

Supervised legal work experience with an approved law or law-related office, organization or program.

Premedicine/Pre dentistry

Majors:

- Bachelor of Science, Pre dentistry (p. 260)
- Bachelor of Science, Premedicine (p. 262)

Minor:

- Medical Humanities (p. 263)

The Bachelor of Science with a major in premedicine (MED) or pre dentistry (DEN) is an interdisciplinary curriculum of study. It is distinctively designed to provide a science-based, diverse education as a preparation for admission to any of the health professional schools

including medical, dental, physician assistant, optometry, pharmacy, veterinary, and chiropractic. Courses in biology, chemistry, mathematics, and physics comprise the science core of the major. A substantial complement of humanities and social sciences courses are also required. Within this framework the curriculum is flexible and can be tailored to suit personal interests. During the first two years, students enroll in courses appropriate for entry into professional schools while they also fulfill basic University requirements.

Admission to professional schools depends upon many factors in addition to the curriculum or major. Academic standing, performance on standardized examinations, practical experience relevant to the profession of interest, and adherence to application procedures are all important. The Premedical Programs Office addresses these factors through a comprehensive approach to pre-health care education.

Along with the administration of the DEN and MED majors, the Premedical Programs office acts as the focal point for all matters related to admission to any allied health care professional school. It is an information clearing house, functions as a liaison with professional schools, and coordinates the application process. The Premedical Programs Office also coordinates a number of internships, health related student organizations, and community based clinical opportunities for students. Students in any major planning to apply to professional schools are urged to maintain a close relationship with this office.

The University automatically enrolls entering premedical or pre dental majors into special orientation classes, and identifies them to the Premedical Programs office. Members of the Premedical/Pre dental Advisory Committee advise these students. However, advising services are available to all preprofessional students regardless of their major. Students in other majors may elect to have committee members serve as their secondary advisors; such students should identify themselves to the Premedical Programs office.

In addition to providing counseling, Premedical Programs offers a seminar series, clinical opportunities, grants for health care related experiences, and scholarships. Since admission to professional schools is highly selective, the program monitors the academic progress of MED/DEN majors, and provides feedback at the end of the first and second year. Transfers to other majors, particularly to science majors, can usually be accommodated during the first two years without affecting normal progress towards graduation.

Premedical/Pre dental Advisory Committee

Kathleen C. Scheltens, Director
 Julie Simon (Mathematics), Assistant Director
 Ahoujja (Physics), Burky (Biology), Crecelius (Health and Sport Science), Hansen (Biology), Johnson (Chemistry), Kango-Singh (Biology), Kearns (Biology), Krane (Biology), Lopper (Chemistry), Mammana (Chemistry), Nickell (Biology), Nielsen (Biology), Pitychoutis (Biology), Smith (Physics), Simon (Math), Singh (Biology), S. Swavey (Chemistry), T. Williams (Biology), S. Wright (Biology)

Bachelor of Science, Pre dentistry (DEN) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103	West and the World
REL 103	Introduction to Religious and Theological Studies

PHL 103	Intro To Philosophy		
ENG 100	Writing Seminar I ²		
Second-Year Writing Seminar ³		0-3	
ENG 200	Writing Seminar II		
Oral Communication		3	
CMM 100	Principles of Oral Communication		
Mathematics		3	
Social Science		3	
SSC 200	Social Science Integrated		
Arts		3	
Natural Sciences ⁴		7	
Crossing Boundaries		variable credit	
Faith Traditions			
Practical Ethical Action			
Inquiry			
Integrative			
Advanced Study		variable credit	
Philosophy and/or Religious Studies			
Historical Studies			
Diversity and Social Justice		3	
Major Capstone		0-3	
¹ Completed with ASI 110 and ASI 120.			
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.			
³ Completed with ENG 200H or ASI 120.			
⁴ Must include two different disciplines and accompanying lab.			
Major Requirements		63	
Satisfies CAP Mathematics and CAP Natural Science			
BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4	
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4	
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4	
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4	
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4	
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4	
CHM 420	Biochemistry	3	
CHM 462L	Biochemistry Laboratory	1	
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II	6	
or MTH 168 & MTH 169	Analytic Geometry & Calculus I and Analytic Geometry & Calculus II		
PHY 201 & PHY 202	College Physics I and General Physics ²	6	
or PHY 206 & PHY 207 & PHY 208	General Physics I - Mechanics and General Physics II - Electricity & Magnetism and General Physics II I- Thermodynamics, Waves, and Fluids		
PHY 201L	College Physics Laboratory I ²	1	
PHY 202L	General Physics Laboratory	1	
MED 480	Pre-Medicine Capstone (Satisfies CAP Major Capstone)	1	
Select one course from:		3	
MTH 207	Introduction to Statistics		
MTH 367	Statistical Methods I		
PSY 216	Elementary Statistics		
Select five science courses, two with accompanying laboratories, from: ³		17	
BIO 309 & 309L	Comparative Anatomy of the Vertebrates and Comparative Anatomy Laboratory		
BIO 312 & 312L	General Genetics and Genetics Laboratory		
BIO 403 & 403L	Physiology I and Physiology Laboratory I		
BIO 404	Physiology II		
BIO 411 & 411L	General Microbiology and General Microbiology Laboratory		
BIO 415	Neurobiology		
BIO 427	Immunology		
BIO 439	Analysis & Interpretation of Biological Data		
BIO 440 & 440L	Cell Biology and Cell Biology Laboratory		
BIO 442 & 442L	Developmental Biology and Developmental Biology Laboratory		
BIO 445	Evolution & Development		
BIO 460	Introduction to Bioinformatics		
BIO 462	Molecular Biology		
BIO 466	Biology of Infectious Disease		
BIO 470	Cancer Biology		
BIO 475 & 475L	Human Anatomy and Human Anatomy Laboratory		
BIO 480 & 480L	Principles of Microscopy and Principles of Microscopy Laboratory		
CHM 201 & 201L	Quantitative Analysis and Quantitative Analysis Laboratory		
CHM 302	Physical Chemistry		
CHM 427	Medicinal Chemistry		
CHM 451	General Biochemistry I		
CHM 452	General Biochemistry II		
Breadth			
ASI 150	Introduction to the University Experience	1	
Electives ^{4,5}		10	
ENG Elective ⁶		3	
Select one course from: (Satisfies CAP Practical Ethical Action and Adv Studies in PHL or REL)		3	
PHL 312	Ethics		
PHL 315	Medical Ethics		
REL 365	Christian Ethics & the Environment		

REL 367	Christian Ethics & Health Care Issues	
Social and Behavioral Sciences (Includes CAP Social Science)		12
Total Hours to total at least		120

- Well qualified students are advised to take MTH 168-MTH 169.
- Well qualified students are strongly advised to take PHY 206-PHY 207-PHY 208 lecture sequence with PHY 201L and PHY 202L.
- The elective courses must be directly related to the primary field of interest.
- Only general elective courses can be taken under Grading Option Two.
- Courses in graphic design, studio art, or performing arts are recommended.
- Select from any 300 or 400 level ENG course.

Bachelor of Science, Premedicine (MED) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

- Completed with ASI 110 and ASI 120.
- Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- Completed with ENG 200H or ASI 120.
- Must include two different disciplines and accompanying lab.

Major Requirements	63
Satisfies CAP Mathematics and Natural Science	

BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 420	Biochemistry	3
CHM 462L	Biochemistry Laboratory	1
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II	6
or MTH 168 & MTH 169	Analytic Geometry & Calculus I and Analytic Geometry & Calculus II	
PHY 201 & PHY 202	College Physics I and General Physics ²	6
or PHY 206 & PHY 207 & PHY 208	General Physics I - Mechanics and General Physics II - Electricity & Magnetism and General Physics II I- Thermodynamics, Waves, and Fluids	
PHY 201L	College Physics Laboratory I ²	1
PHY 202L	General Physics Laboratory	1
MED 480	Pre-Medicine Capstone (Satisfies CAP Major Capstone)	1
Select one course from:		3
MTH 207	Introduction to Statistics	
MTH 367	Statistical Methods I	
PSY 216	Elementary Statistics	
Select five science courses, two with accompanying laboratories, from: ³		17
BIO 309 & 309L	Comparative Anatomy of the Vertebrates and Comparative Anatomy Laboratory	
BIO 312 & 312L	General Genetics and Genetics Laboratory	
BIO 403 & 403L	Physiology I and Physiology Laboratory I	
BIO 404	Physiology II	
BIO 411 & 411L	General Microbiology and General Microbiology Laboratory	
BIO 415	Neurobiology	
BIO 427	Immunology	
BIO 439	Analysis & Interpretation of Biological Data	
BIO 440 & 440L	Cell Biology and Cell Biology Laboratory	
BIO 442 & 442L	Developmental Biology and Developmental Biology Laboratory	
BIO 445	Evolution & Development	
BIO 460	Introduction to Bioinformatics	
BIO 462	Molecular Biology	
BIO 466	Biology of Infectious Disease	

BIO 470	Cancer Biology	
BIO 475 & 475L	Human Anatomy and Human Anatomy Laboratory	
BIO 480 & 480L	Principles of Microscopy and Principles of Microscopy Laboratory	
CHM 201 & 201L	Quantitative Analysis and Quantitative Analysis Laboratory	
CHM 302	Physical Chemistry	
CHM 427	Medicinal Chemistry	
CHM 451	General Biochemistry I	
CHM 452	General Biochemistry II	

Breadth

ASI 150	Introduction to the University Experience	1
Electives ⁴		10
ENG Elective ⁵		3
Select one course from: (Satisfies CAP Practical Ethical Action and Adv Studies in PHL or REL)		3
PHL 312	Ethics	
PHL 315	Medical Ethics	
REL 365	Christian Ethics & the Environment	
REL 367	Christian Ethics & Health Care Issues	
Social and Behavioral Sciences (Includes CAP Social Science)		12
Total Hours to total at least		120

¹ Well qualified students are advised to take MTH 168-MTH 169.

² Well qualified students are strongly advised to take PHY 206-PHY 207-PHY 208 lecture sequence with PHY 201L and PHY 202L.

³ The elective courses must be directly related to the primary field of interest.

⁴ Only general elective courses can be taken under Grading Option Two.

⁵ Select from any 300 or 400 level ENG course.

Minor in Medical Humanities (MHM)

Select 5 courses from: ¹ 15

ANT 336	Topics in Medical Anthropology	
CMM 411	Health Communication	
ENG 366	Health Literacy and Social Justice	
ENG 373	Writing in the Health Professions	
PHL 315	Medical Ethics	
PSY 366	Health Psychology	
REL 367	Christian Ethics & Health Care Issues	
SWK 330	Perspectives on Aging	
SWK 331	Death, Dying and Suicide	
VAF 230	Anatomy Drawing for Non-Majors	

¹ Additional courses may be approved by the Program Director.

- Bachelor of Science, Pre dentistry (p. 264)
- Bachelor of Science, Pre medicine (p. 263)

Bachelor of Science, Pre dentistry

First Year		Hours	Spring	Hours
Fall				
ASI 150		1	BIO 152 & 152L	4
BIO 151 & 151L (CAP Natural Science w/lab)		4	CHM 124 & 124L	4
CHM 123 & 123L		4	MTH 149	3
MTH 148 (Satisfies CAP Mathematics)		3	REL 103 or PHL 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)		3	REL 103 or PHL 103 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)		3		
		18		17
Second Year				
Fall				
CHM 313 & 313L		4	CHM 314 & 314L	4
PHY 201 & 201L (CAP Natural Science w/lab)		4	PHY 202 & 202L	4
ENG 200 (CAP Writing Seminar)		3	CMM 100 (CAP Communication)	3
SSC 200 (CAP Social Science)		3	Social Science - elective	3
		14		14
Third Year				
Fall				
CHM 420		3	MED 480 (CAP Capstone)	1
CHM 462L		1	Science elective	3
MTH 207, 367, or PSY 216		3	Science elective	3
Science elective		3	CAP Arts	3
CAP Inquiry / Social Science		3	CAP Practical Ethical Action	3
English elective		3	Social Science - elective	3
		16		16
Fourth Year				
Fall				
Science elective w/lab		4	Science elective with lab	4
CAP Faith Traditions		3	CAP Integrative	3
CAP Advanced Historical Studies		3	CAP Advanced Philosophy/Religious Studies	3
CAP Advanced Philosophy/Religious Studies		3	CAP Diversity and Social Justice	3

General elective	1 General elective	1
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	14	14

Total credit hours: 123

Bachelor of Science, Premedicine

First Year

Fall	Hours Spring	Hours
ASI 150	1 BIO 152 & 152L	4
BIO 151 & 151L (CAP Natural Science w/lab)	4 CHM 124 & 124L	4
CHM 123 & 123L	4 MTH 149	3
MTH 148 (Satisfies CAP Mathematics)	3 REL 103 or PHL 103 (CAP Humanities Commons)	3
ENG 100 (CAP Humanities Commons)	3 REL 103 or PHL 103 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3	
<hr/>		
	18	17

Second Year

Fall	Hours Spring	Hours
CHM 313 & 313L	4 CHM 314 & 314L	4
PHY 201 & 201L (CAP Natural Science w/lab)	4 PHY 202 & 202L	4
ENG 200 (CAP Writing Seminar)	3 CMM 100 (CAP Communication)	3
SSC 200 (CAP Social Science)	3 Social Science - elective	3
<hr/>		
	14	14

Third Year

Fall	Hours Spring	Hours
CHM 420	3 MED 480 (CAP Capstone)	1
CHM 462L	1 Social Science - elective	3
MTH 207, 367, or PSY 216	3 Science elective	3
Science elective	3 Science elective	3
CAP Inquiry / Social Science	3 CAP Arts	3
English elective	3 CAP Practical Ethical Action	3
<hr/>		
	16	16

Fourth Year

Fall	Hours Spring	Hours
Science elective w/lab	4 Science elective with lab	4
CAP Faith Traditions	3 CAP Integrative	3
CAP Advanced Historical Studies	3 CAP Advanced Philosophy/Religious Studies	3

CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
General elective	1 General elective	1
<hr/>		
	14	14

Total credit hours: 123

Courses

MED 210. Premed Community Health Experience. 1 Hour

This one credit pass/fail mini-course is intended to orient and train the student to provide services as a volunteer at Reach Out of Montgomery County. In addition to learning skills required to perform volunteer functions during the open clinic, students will learn about the complexities of providing healthcare to under-served populations and develop interpersonal skills to be an empathic and informed advocate for patients. Prerequisite(s): Sophomore status.

MED 220. Hospital Elder Life Program. 1 Hour

Experiential course utilizing the Hospital Elder Life Program (HELP) which is an innovative model program designed to improve the hospital experience of older patients. In this program student volunteers carry out program interventions directly at the bedside. This training program gives volunteers a level of patient contact and responsibility that is unique among hospital programs. The training course includes instruction in the four volunteer intervention programs: Daily Visitor Program, Feeding Assistance Program, Early Mobilization Program, Therapeutic Activities Program. Students must complete all elements of the training program including classroom instruction, Sim lab skills check-offs, and fulfill all required supervised training hours. Prerequisite(s): Sophomore status.

MED 339. Global Brigades: Perspectives on Global Poverty and Health. 1 Hour

Exploration of the health related conditions of rural Nicaragua in preparation for participation in a nine day medical/dental/public health brigade to this area. Upon completion of this course, students will possess the knowledge and skill set necessary to participate in a medical service project with an international service organization focused on providing acute and preventative medical care to underserved populations in rural Nicaragua.

MED 351. Healthy Children: Addressing Social Needs to Improve Health Outcomes. 1 Hour

Examination of the social needs of pediatric patients and families' social needs that most affect children's health. Will include methods of helping families connect with community resources that can assist in meeting these needs. Prerequisite(s): Sophomore Standing, basic orientation to healthcare or human service industries.

MED 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MED 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

MED 480. Pre-Medicine Capstone. 1 Hour

Seminar focuses on reflection and analysis of a clinical experience such as international medical brigade, Reach Out community medicine experience or Good Neighbor House dental experience (or other experience pre-approved by program director.) Course is offered in Spring semester. Junior or Senior status. MED or DEN Major. Completion of one of the following: international medical brigade and UDI 339; Reach Out community medicine experience and UDI 270; or Good Neighbor House dental experience and UDI 276 (or other experience pre-approved by program director) .

Psychology

Majors:

- Bachelor of Arts, Psychology (p. 265)
- Bachelor of Science, Psychology (p. 266)

Minor:

- Psychology (p. 267)

Psychology is the scientific study of behavior, and as such is a diverse field that touches all aspects of human endeavor.

The Department of Psychology offers a Bachelor of Arts (B.A.) and a Bachelor of Science (B.S.) in Psychology. The department encourages students who are interested in preparation for graduate school or a career in a particular area of psychology to consult with their faculty advisor as well as the University of Dayton's Psychology Department webpage for a listing of courses that would be recommended for preparation in that area. Some examples of such areas include clinical psychology, developmental psychology, cognitive psychology, and social psychology.

Each psychology major must complete: PSY 101, PSY 201, PSY 216, and PSY 217 early in his or her academic career. Specifically, PSY 101 is required prior to taking any other psychology course. Further, students can take no more than 6 credit hours prior to enrolling in PSY 216, and no more than 15 hours before enrolling in PSY 217. The remaining requirements are stated in the outline below. Exceptions to these requirements must be approved by the department chairperson.

Psychology majors are required to attain grades of C- or better in PSY 101, PSY 201, PSY 216, and PSY 217. Further, completion of PSY 101 and PSY 216 with a C- or better is required to transfer into the major. Students who do not earn a C- or better in PSY 216 after two attempts will be required to meet with the department chairperson.

Psychology majors are required to attain grades of C- or better in the following courses:

PSY 101	Introductory Psychology	3
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PSY 201	Sophomore Seminar: Psychology as a Science and Profession	1
PSY 216	Elementary Statistics	3
PSY 217	Research Methods	3

and any two courses from each of the two core groupings:

PSY 321	Cognition	3
PSY 322	Learning	3
PSY 323	Psychology of Perception	3
PSY 422	Biopsychology	3
PSY 341	Social Psychology	3
PSY 351	Child Psychology	3
PSY 361	Personality	3
PSY 363	Abnormal Psychology	3

If a C- or better is not attained, courses will have to be retaken if they are used to satisfy the psychology major.

A minor in psychology consists of eighteen semester hours, including PSY 101, one course from each of the core groupings, and three electives.

Faculty

Lee Dixon, Interim Chairperson

Professors Emeriti: Allik, Biers, Butter, DaPolito, Eggemeier, Korte, Kuntz, Moroney, Polzella

Professors: Bauer, Reeb, Zois

Associate Professors: Crutcher, Dixon, Elvers, Goodnight, Katsuyama, Kirschman, Montoya, Roecker Phelps

Assistant Professors: Burmeister, Butler, Davis, Fuhs, Kunz, O'Mara, Walsh-Messinger

Visiting Assistant Professor: Berry

Lecturers: Engle, Farnsworth, Layman-Guadalupe, Rodriguez

Bachelor of Arts, Psychology (PSY) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
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HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	

Second-Year Writing Seminar ³	0-3
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ENG 200	Writing Seminar II	
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Oral Communication	3
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CMM 100	Principles of Oral Communication	
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Mathematics	3
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Social Science	3
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SSC 200	Social Science Integrated	
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Arts	3
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Natural Sciences ⁴	7
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Crossing Boundaries	variable credit
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Faith Traditions	
Practical Ethical Action	

Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

- ¹ Completed with ASI 110 and ASI 120.
- ² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- ³ Completed with ENG 200H or ASI 120.
- ⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-1
Literature (May include CAP Components)	3
Mathematics (Satisfies CAP Mathematics)	6-8
Select one mathematics sequence from:	
MTH 116 & MTH 148	Precalculus Math and Introductory Calculus I
MTH 128 & MTH 129	Finite Mathematics and Calculus for Business
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II
MTH 168 & MTH 169	Analytic Geometry & Calculus I and Analytic Geometry & Calculus II
Natural Sciences (Satisfies CAP Natural Sciences)	11
BIO 151	Concepts of Biology I: Cellular & Molecular Biology
BIO 151L	Concepts of Biology Laboratory I: Cellular & Molecular Biology
BIO 152	Concepts of Biology II: Evolution & Ecology
BIO 152L	Concepts of Biology Laboratory II: Evolution & Ecology
CAP Natural Science lecture (specified for science majors, excluding BIO)	
Social Sciences, excluding PSY courses (Includes CAP Social Science)	12

Major Requirements

PSY 101	Introductory Psychology	3
PSY 201	Sophomore Seminar: Psychology as a Science and Profession	1
PSY 216	Elementary Statistics	3
PSY 217	Research Methods	3
Select two courses from:		6
PSY 321	Cognition	
PSY 322	Learning	
PSY 323	Psychology of Perception	
PSY 422	Biopsychology	
Select two courses from:		6
PSY 341	Social Psychology	
PSY 351	Child Psychology	
PSY 361	Personality	

PSY 363	Abnormal Psychology	
Select one course from: (Satisfies CAP Major Capstone)		3
PSY 471	History of Psychology	
PSY 480	Senior Seminar in Psychology	
PSY 499	Independent Research Capstone	
PSY courses (300/400 level) ^{1,2}		12-24

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

- ¹ No more than a total of six hours of PSY 352, PSY 477, PSY 490, PSY 493, PSY 494 and/or PSY 497 may count toward the thirty-seven semester hours required in PSY for the major.
- ² May include CAP Components.

Bachelor of Science, Psychology (PSY) minimum 120 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected		
First-Year Humanities Commons ¹		12
HST 103	West and the World	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Intro To Philosophy	
ENG 100	Writing Seminar I ²	
Second-Year Writing Seminar ³		0-3
ENG 200	Writing Seminar II	
Oral Communication		3
CMM 100	Principles of Oral Communication	
Mathematics		3
Social Science		3
SSC 200	Social Science Integrated	
Arts		3
Natural Sciences ⁴		7
Crossing Boundaries		variable credit
Faith Traditions		
Practical Ethical Action		
Inquiry		
Integrative		
Advanced Study		variable credit
Philosophy and/or Religious Studies		
Historical Studies		
Diversity and Social Justice		3
Major Capstone		0-3

- ¹ Completed with ASI 110 and ASI 120.
- ² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- ³ Completed with ENG 200H or ASI 120.
- ⁴ Must include two different disciplines and accompanying lab.

Science Breadth Requirements

Satisfies CAP Mathematics and CAP Natural Science

Mathematics ¹	6-8
Select one mathematics sequence from:	
MTH 137 & MTH 138	Calculus I with Review and Calculus I with Review
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II
MTH 168 & MTH 169	Analytic Geometry & Calculus I and Analytic Geometry & Calculus II
Natural Sciences ²	17
Major Requirements	37
PSY 101	Introductory Psychology 3
PSY 201	Sophomore Seminar: Psychology as a Science and Profession 1
PSY 216	Elementary Statistics 3
PSY 217	Research Methods 3
Select two courses from:	6
PSY 321	Cognition
PSY 322	Learning
PSY 323	Psychology of Perception
PSY 422	Biopsychology
Select two courses from:	6
PSY 341	Social Psychology
PSY 351	Child Psychology
PSY 361	Personality
PSY 363	Abnormal Psychology
Select one course from: (Satisfies CAP Major Capstone)	3
PSY 471	History of Psychology
PSY 480	Senior Seminar in Psychology
PSY 499	Independent Research Capstone
PSY courses (300/400 level) ³	12-24
Breadth	
ASI 150	Introduction to the University Experience 1
Social and Behavioral Science, excluding PSY courses (Includes CAP Social Science)	12
Total Hours to total at least	120

¹ The Mathematics requirement may also be satisfied by taking MTH 207 and one calculus course: MTH 137, or MTH 148, or MTH 168.

² Bio 151 and Bio 152 with accompanying labs are required. The remaining 9 hours may be fulfilled by courses in BIO, CHM, GEO, PHY, and CPS courses as well as by MTH courses beyond the departmental MTH requirement.

³ No more than a total of six hours of PSY 352, PSY 477, PSY 490, PSY 493, PSY 494 and/or PSY 497 may count toward the thirty-seven semester hours required in PSY for the major.

Minor in Psychology (PSY)

Psychology

PSY 101	Introductory Psychology	3
Select one course from:		3
PSY 321	Cognition	
PSY 322	Learning	

PSY 323	Psychology of Perception	
PSY 422	Biopsychology	
Select one course from:		3
PSY 341	Social Psychology	
PSY 351	Child Psychology	
PSY 361	Personality	
PSY 363	Abnormal Psychology	
Select three PSY courses (300/400 level) ¹		9
Total Hours		18

¹ Only three semester hours of PSY 352, PSY 490, PSY 493, PSY 494, and/or PSY 497 may count toward the minor.

- Bachelor of Arts, Psychology (p. 265)
- Bachelor of Science, Psychology (p. 266)

Bachelor of Arts, Psychology

First Year		Hours
Fall	Spring	Hours
ASI 150	1 PSY 216	3
PSY 101	3 ENG 100 (CAP Humanities Commons)	3
BIO 151 & 151L (CAP Natural Science w/lab)	4 REL 103 (CAP Humanities Commons)	3
MTH 116 or 148 (MTH 148 Satisfies CAP Mathematics)	3-4 BIO 152 & 152L	4
Language 101	4 Language 141	4
	15-16	17
Second Year		Hours
Fall	Spring	Hours
HST 103 (CAP Humanities Commons)	3 PSY 201	1
ENG 200 (CAP Writing Seminar)	3 PSY 341, 351, 361, or 363	3
PSY 217	3 PHL 103 (CAP Humanities Commons)	3
MTH 148, 149, or 168 (course varies by student)	3-4 CMM 100 (CAP Communication)	3
Language 201 or contextual course	3 SSC 200 (CAP Social Science)	3
	CAP Natural Science	3
	15-16	16
Third Year		Hours
Fall	Spring	Hours
PSY 341, 351, 361, or 363	3 PSY 321, 322, 323, or 422	3
PSY 321, 322, 323, or 422	3 PSY at 300 or 400 level	3
Social Science - intro level not PSY	3 CAP Advanced Philosophy/Religious Studies	3

CAP Arts / Creative and Performing	3 CAP Advanced Historical Studies	3
CAP Faith Traditions	3 Literature	3
		15
Fourth Year		
Fall	Hours Spring	Hours
PSY at 300 or 400 level	3 PSY 471, 478, or 499 (Satisfies CAP Major Capstone)	3
PSY at 300 or 400 level	3 PSY at 300 or 400 level	3
Social Science - 300/400 level not PSY	3 CAP Inquiry	3
CAP Integrative	3 CAP Diversity and Social Justice	3
CAP Practical Ethical Action, Advanced Philosophy/ Religious Studies	3 Social Science - elective not PSY	3
		15

Total credit hours: 123-125

Bachelor of Science, Psychology

First Year		
Fall	Hours Spring	Hours
ASI 150	1 MTH 149	3
BIO 151 & 151L (CAP Natural Science w/lab)	4 BIO 152 & 152L	4
MTH 148 or 168 (Satisfies CAP Mathematics)	3-4 PSY 216	3
ENG 100 (CAP Humanities Commons)	3 REL 103 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3 PHL 103 (CAP Humanities Commons)	3
PSY 101	3	
		17-18

Second Year		
Fall	Hours Spring	Hours
PSY 201	1 PSY 321, 322, 323, or 422	3
PSY 217	3 PSY 341, 351, 361, or 363	3
PSY 341, 351, 361, or 363	3 SSC 200 (CAP Social Science)	3
ENG 200 (CAP Writing Seminar)	3 Natural Science elective	3
CMM 100 (CAP Communication)	3 CAP Arts	3
CAP Natural Science	3	
		16

Third Year		
Fall	Hours Spring	Hours
PSY 321, 322, 323, or 422	3 PSY 317 (or PSY at 300 or 400 level)	3
CAP Faith Traditions	3 PSY at 300 or 400 level	3
CAP Practical Ethical Action	3 CAP Inquiry	3

Natural Science elective	3 CAP Advanced Philosophy/ Religious Studies	3
Social Science - elective not PSY	3 CAP Advanced Historical Studies	3
		15

Fourth Year		
Fall	Hours Spring	Hours
PSY 471, 480, or 499 (Satisfies CAP Major Capstone)	3 PSY at 300 or 400 level	3
PSY at 300 or 400 level	3 CAP Integrative	3
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
Social Science - elective not PSY	3 Social Science - elective not PSY	3
General elective	3 General elective	3
		15

Total credit hours: 124-125

Courses

PSY 101. Introductory Psychology. 3 Hours

Study of human behavior including development, motivation, emotion, personality, learning, perception; general application of psychological principles to personal, social, and industrial problems. Students must participate in departmental research.

PSY 201. Sophomore Seminar: Psychology as a Science and Profession. 1 Hour

Introduction to the science and profession of psychology including the nature and breadth of psychological study and career exploration. Prerequisite(s): PSY 101.

PSY 216. Elementary Statistics. 3 Hours

Basic probability and applied statistics: measures of central tendency and dispersion, sampling, estimation, hypothesis testing, tests between means, linear regression, correlation, and ANOVA. Prerequisite(s): MTH 102 or higher; PSY 101.

PSY 217. Research Methods. 3 Hours

Basic concepts of scientific methods as applied to psychological problems. Experiments to familiarize students with application of scientific methodology to study of human psychological processes. Required of all psychology majors. Prerequisite(s): PSY 101, PSY 216.

PSY 251. Human Growth & Development. 3 Hours

Focuses on stages of human development from infancy through the aging adult. Emphasis is on various theoretical approaches and the development associated with each stage. Psychology majors may not take for credit toward major. Prerequisite(s): PSY 101.

PSY 317. Advanced Research Methods. 3 Hours

Advanced application of statistical and research methods learned in PSY 216 and PSY 217 to the design, analysis, and write-up of an original empirical study. Research area will vary according to instructor expertise. Prerequisite(s): PSY 217.

PSY 321. Cognition. 3 Hours

Information-processing approach to attention, perception, memory, imagery, and thought. Theoretical structures including neuron modeling of higher cognitive and experimental processes. Prerequisite(s): PSY 101.

PSY 322. Learning. 3 Hours

Foundations of the learning process. Classical and instrumental paradigms and variants of each considered in preparation for investigations of complex learning. Prerequisite(s): PSY 101.

PSY 323. Psychology of Perception. 3 Hours

Introduction to major theoretical and experimental work in perception, including visual, auditory, proprioceptive, and other sensory systems. Prerequisite(s): PSY 101.

PSY 333. Psychological Tests & Measurements. 3 Hours

Survey of major tests of intelligence, aptitude, interest, and personality presently used in clinics, schools, personnel offices, and research settings. Emphasis on evaluation and comparison, rationale of construction, ethical considerations. Prerequisite(s): (PSY 101, PSY 216) or equivalent.

PSY 334. Industrial Psychology. 3 Hours

Introduction to modern efforts to improve human performance in industrial organizations and society; selection and placement of employees, morale, training, and incentives. Prerequisite(s): PSY 101.

PSY 341. Social Psychology. 3 Hours

Survey of major theoretical and experimental work in the field; attitudes, conformity, emotions, group dynamics.

PSY 344. Interpersonal Relationships. 3 Hours

Social psychological research in nonverbal behavior, social exchange, self-disclosure, and interpersonal attraction and how these are related to developing relationships. Prerequisite(s): PSY 101.

PSY 351. Child Psychology. 3 Hours

Study of psychological processes from the developmental point of view; changes in perception, cognition, emotion, and social behavior from infancy to adolescence. Prerequisite(s): PSY 101.

PSY 353. The Psychology of Adult Development & Aging. 3 Hours

Provides a general introduction to the multi-disciplinary field of adulthood and aging with a specific focus on aspects of interest to psychologists: cognitive, intellectual, personality, and biological changes across adult development. Prerequisite(s): PSY 101.

PSY 355. Developmental Psychopathology. 3 Hours

Survey of developmental theory and research related to the psychopathology of infants, children, and adolescents. Focus is on etiology, identification, and intervention. Prerequisite(s): (PSY 101, PSY 351) or permission of instructor.

PSY 361. Personality. 3 Hours

Introduction to the study of personality through analysis of such major theories as those of Freud, Skinner, Maslow, and Rogers. The development of personality and the stability of personality characteristics over time. Review of clinical and experimental findings. Prerequisite(s): PSY 101.

PSY 363. Abnormal Psychology. 3 Hours

Patterns of disordered behavior; social, psychological, and physiological factors; theoretical explanations of abnormal behavior. Prerequisite(s): PSY 101.

PSY 364. Psychotherapy. 3 Hours

Survey of current types of psychotherapy. Emphasis on similarities and differences in underlying theories of behavioral change and associated techniques. Prerequisite(s): PSY 101.

PSY 366. Health Psychology. 3 Hours

Explores psychological research, theory, and techniques in health-related areas, such as health promotion, the identification of contributors to illness, illness prevention, stress and coping, stress management, changing health beliefs and behavior, pain and its management, and the management of chronic and terminal illnesses.

PSY 368. Community Psychology. 3 Hours

The application of psychological principles to the understanding and prevention of prevalent community problems including teen pregnancy, school violence, mental illness, substance abuse, homelessness and poverty. Prerequisite(s): PSY 101.

PSY 375. Psychology of the Arts. 3 Hours

Explores the psychological experiences associated with the creation and appreciation of music, art, and literature. Course content is presented in terms of the theories, methods, and research findings in the fields of perception, cognition, and development.

PSY 390. Forensic Psychology. 3 Hours

Exploration of psychological research, theory, and techniques in the intersection of psychology and the law, such as police psychology, criminal investigation techniques, interrogations and false confessions, eyewitness identifications, risk assessments, issues of competency, trial consulting, and influencing public policy. Equipping students with this information and familiarizing them with their legal rights will contribute to their ability to protect themselves from injustice. They are also encouraged to work toward social justice for all citizens, particularly the most vulnerable in our communities. Prerequisite(s): SSC 200.

PSY 410. Questionnaire Design. 3 Hours

Students will learn about critical issues in questionnaire design and use, the advantages/disadvantages of questionnaires, types of questionnaires, questionnaire development strategies, scale selection, and how to evaluate questionnaires. Students will develop, test and evaluate a questionnaire in a domain of interest to them. Depending on the size of the effort, students may work in teams.

PSY 422. Biopsychology. 3 Hours

Neurophysiological analysis of attention, sensation, perception, emotion, motivation, and learning. Prerequisite(s): PSY 101.

PSY 431. Interviewing & Counseling. 3 Hours

Integrated approach to the theory, techniques, skills, and values of interviewing and counseling. Practice through written assignments, self study, classroom exercises, and role-playing. Prerequisite(s): PSY 101.

PSY 435. Human Factors. 3 Hours

Students learn methods to improve the interface between humans and their environment. Human characteristics are studied to determine the best way to design the task, product, workstation, or other environmental features to accommodate the human. Students in the School of Engineering must have junior or senior status.

PSY 443. Women, Gender, and Psychology. 3 Hours

Survey of a wide range of topics pertaining to women, and gender more broadly. Such topics include, but are not limited to gender role development, gender differences and similarities, sexual orientation, mental health, interpersonal relationships, and victimization. The format of this course is a combination of lectures, group activities, and out-of-class experiential learning. This course fulfills the CAP Diversity and Social Justice Requirement and one of the requirements for both the Women's and Gender Studies Minor and Major. Prerequisite(s): SSC 200.

PSY 444. Environmental Psychology. 3 Hours

Study of the effects of the physical and social environment on human behaviors, attitudes, and affective responses. Prerequisite(s): (PSY 101, PSY 341) or permission of instructor.

PSY 445. Technology, Environment & Behavior. 3 Hours

Examines the cultural bases for the individual and societal choices which humans make about their use of technology. Technology is broadly defined to include human-machine systems.

PSY 450. Psychology for Ministry. 3 Hours

Human development and adjustment, interpersonal communication, and the psychology of religion. Prerequisite(s): Acceptance into the Lay Ministry Program or permission of instructor.

PSY 451. Psychology of Religion. 3 Hours

Addresses the psychological study of the nature of religion and religious experience; explores the development of internalized beliefs, attitudes, and values and the effect they have on individual functioning. An introductory course in psychology is highly recommended. Prerequisite(s): Junior or senior standing.

PSY 452. Cognitive Development in Children. 3 Hours

Major approaches to the study of cognitive development; attentional and mediational development in children's learning, memory, and problem solving; language development and Piaget's theory. Prerequisite(s): (PSY 101, PSY 351) or permission of instructor.

PSY 461. Current Implications of Drug Dependency. 3 Hours

Survey of effects, symptoms, treatment, causalities, and myths associated with drug use and abuse. Emphasis on existing treatment methods and psychological implications of drug dependency. Prerequisite(s): PSY 101.

PSY 462. Human Sexuality. 3 Hours

Psychological factors in human sexuality including developmental, biological, and social perspectives. Such topics as sexual orientation, gender identity and roles, sexual relationships, sexual dysfunction, power and violence, and commercialization.

PSY 471. History of Psychology. 3 Hours

The evolution of psychology from its origins in philosophy, science, clinical, and applied settings. Emphasis on integrating these systems and schools of thought with modern psychology. Students will produce a scholarly work which will be presented publicly. Students will reflect on how the various schools of thought influence the purpose of their life, their proposed work and how they, in the profession of Psychology, might serve the community. Prerequisite(s): PSY 101; At least three of PSY 321, PSY 322, PSY 323, PSY 422, PSY 341, PSY 351, PSY 361, PSY 363 (the core areas of psychology); Seniors only.

PSY 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

PSY 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

PSY 480. Senior Seminar in Psychology. 3 Hours

Advanced exploration of the meaning of scholarship to the vocation of psychology. Students will engage in critical review of readings in psychology and develop a scholarly project consistent with discipline standards and suited to the professional goals of the student. Prerequisite(s): PSY 217.

PSY 490. Internship in Psychology. 1-6 Hours

Supervised experience arranged on an individual basis in appropriate settings. For junior or senior psychology majors who have completed prescribed course work only. Consult internship director for details. May be repeated up to six semester hours. Grade Option Two only.

PSY 493. Independent Study. 1-6 Hours

Problems of special interest investigated under faculty direction. Area and criteria for evaluation to be specified prior to registration. May be repeated up to six semester hours. Prerequisite(s): Permission of instructor.

PSY 494. Readings in Psychology. 1-6 Hours

Directed reading in a specific area of interest, under faculty supervision. Topic and criteria for evaluation to be specified prior to registration. May be repeated up to six semester hours. Prerequisite(s): Permission of instructor.

PSY 495. Special Topics in Psychology. 1-3 Hours

Topics of special interest to faculty and students; intensive critical evaluation of appropriate literature. Prerequisite(s): Permission of instructor.

PSY 497. Service Learning Experience. 1 Hour

Supervised community research or service experience that complements a specific upper division course in Psychology. Repeatable up to three semester hours. Corequisite(s): A 300-400 level Psychology course.

PSY 499. Independent Research Capstone. 3 Hours

Project and presentation of special interest investigated under faculty direction. Students will produce a scholarly work which will be presented publicly. Students will reflect on how psychological research will influence their professional life as a psychologist, the implications of that for their own life, and how they, in the profession of Psychology, serve the community. PSY 478H and PSY 499 cannot both be taken for credit. Prerequisite(s): PSY 216; PSY 217; At least three of PSY 321, PSY 322, PSY 323, PSY 422, PSY 341, PSY 351, PSY 361, PSY 363 (the core areas of psychology); Seniors only.

Religious Studies

Major:

- Bachelor of Arts, Religious Studies (p. 271)

Minors:

- Religious Studies (p. 272)
- Religious Studies- Catechesis (p. 272)

The Department of Religious Studies sees itself as a community of scholars serving the University community and the local community by teaching, research, criticism, and action. The main concern of the department is an understanding and elucidation of the Judaeo-Christian religious experience as it is exemplified in the Roman Catholic tradition. This implies not only a deep investigation of the Roman Catholic position but also a dialogue with other Christian traditions and with other world religions.

Students majoring in religious studies ordinarily follow one of five tracks in the major:

- Students preparing for ministry in a Christian church (e.g., pastoral associates, youth ministry, parish religious educators) follow the "Ministry" track.
- Students preparing to teach religion in elementary or secondary schools follow the "Catholic Schools" track.
- Students preparing for graduate study in Christian theology, systematics, church history, ethics, etc., follow the "Graduate School Preparation" track.
- Students preparing for graduate study of religions other than Christianity and/or interested in world religions follow the "World Religions" track.
- Students wishing to study religion as a way of broadening their horizons or who are interested in religious studies as an undergraduate major follow the "General" track.

All religious studies majors must show basic practical communicative proficiency in one foreign language.

A minor in religious studies consists of 18 semester hours, which includes REL 103 or REL 198 or ASI 110. At least three semester hours are to be at the 400-level.

A minor in Catechesis consists of 19 semester hours, not including REL 103 or REL 198 or ASI 110.

Faculty

Daniel Speed Thompson, Chairperson

Professors Emeriti: Anderson, Buby, Burns, Friedland, Hater, L'Heureux, Martin, Roberts, Thimmes

Professors: Barnes, Branick, Doyle, Inglis (Philosophy), Kallenberg, Miller, Portier, Trollinger (History), Zukowski

Associate Professors: Bennett, Bunta, Johnson, Johnston, Kozar, Moore, Orji, Smith, Thompson, Yocum

Assistant Professors: Atlas, DeAnda, Henning, Salih

Lecturer: Ryan

Bachelor of Arts, Religious Studies (REL) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3

CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements^{1, 2, 3} 36

REL 103 Introduction to Religious and Theological Studies	3-7
or ASI 110 The Roots and Development of Western Culture in a Global Context	
REL 490 Capstone Seminar (Satisfies CAP Major Capstone)	3

Select one track from:

Ministry	30
REL 315 The Gospels	
REL 323 History of Early Christianity	
or REL 324 History of Christianity II	
REL 360 Christian Ethics	
REL 437 Significance of Jesus	
REL 440 The Church	
REL 443 The Sacraments	
REL 485 Lay Ministry	

Select one course in each: Old Testament, world religions, religion and culture

Catholic Schools	30
REL 323 History of Early Christianity	
or REL 324 History of Christianity II	
REL 327 United States Religious Experience	
or REL 328 United States Catholic Experience	

or REL 329	African-American Religion	
REL 360	Christian Ethics	
REL 383	Philosophy of Religious Education	
or REL 487	Religious Education- Theory & Practice	
Select one course in each: Old Testament, New Testament, world religions, religion and culture; two courses in systematic theology		
Graduate School Preparation		30
REL 323	History of Early Christianity	
REL 324	History of Christianity II	
REL 437	Significance of Jesus	
REL 440	The Church	
or REL 443	The Sacraments	
Select one course in each: Old Testament, New Testament, ethics, world religions, religion and culture, systematic theology		
World Religions		30
REL 323	History of Early Christianity	
or REL 324	History of Christianity II	
Select three courses from:		
REL 304	Hinduism	
REL 305	Eastern Orthodoxy	
REL 306	Buddhism	
REL 307	Judaism	
REL 308	Islam	
Select one course in each: Old Testament, New Testament, ethics, systematic theology, religion and culture		
REL elective		
General		30
Select one course in each: Old Testament, New Testament, world religions, church history, systematic theology, ethics, religion and culture		
REL elective		
Breadth		
ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

- ¹ Includes CAP Components.
- ² Six semester hours in addition to REL 490 must be at the 400-level.
- ³ REL courses are not applicable to CAP Advanced Studies.

Minor in Religious Studies (REL)

Religious Studies	
Select eighteen REL semester hours ¹	18
Total Hours	18

¹ At least three semester hours at the 400 level.

Minor in Religious Studies-Catechesis (CTE)

The Minor in Religious Studies - Catechesis (CTE) offers students an excellent opportunity to prepare to teach religion (catechesis) in Catholic schools, or parish ministry today. The minor is grounded in the official principles of catechesis required by the United States Conference of Catholic Bishops. The minor incorporates the basic courses required by

most dioceses across the country for achieving diocesan certification in content, methodology, and praxis experiences. It is open to all students who desire to engage in a religion teaching ministry either on a full-time professional or a volunteer basis following graduation.

Religious Studies - Catechesis ¹

REL 328	United States Catholic Experience ²	3
Forum for Young Catechetical Leaders		4
REL 281	Forum for Catechetical Leaders I	
REL 282	Forum for Catechetical Leaders II	
REL 283	Forum for Catechetical Leaders III	
REL 284	Forum for Catechetical Leaders IV	
Select one Liturgy course from:		3
REL 356	The Christian Tradition of Prayer	
REL 383	Philosophy of Religious Education	
REL 443	The Sacraments	
REL 446	Christian Liturgy	
REL 488	Spirituality & Religious Education	
Select one Scripture course from:		3
REL 310	The Pentateuch	
REL 311	The Prophets	
REL 315	The Gospels	
REL 318	Studies in Paul	
Select one Morality or Ethics course from:		3
REL 360	Christian Ethics	
REL 363	Faith & Justice	
REL 364	Current Moral Issues	
Select one Ecclesiology or Church History course from:		3
REL 323	History of Early Christianity	
REL 324	History of Christianity II	
REL 440	The Church	
Total Hours		19

- ¹ These hours are in addition to REL 103 (or REL 198 or ASI 110), which is usually taken in the student's first year.
- ² Or equivalent.

First Year		
Fall	Hours Spring	Hours
ASI 150	1 ASI 120 (CAP Humanities Commons)	8
ASI 110 (CAP Humanities Commons)	7 MTH (CAP Mathematics)	3
CMM 100 (CAP Communication)	3 Language 141	4
Language 101	4	
		15
Second Year		
Fall	Hours Spring	Hours
REL Major Elective	3 REL Major elective	3
SSC 200 (CAP Social Science)	3 REL Major elective	3
Literature	3 CAP Arts	3
INSS (CAP Natural Science w/lab)	4 INSS (CAP Natural Science w/lab)	4

Language 201 or contextual course	3 Social Science - intro level	3
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	16	16
Third Year		
Fall	Hours Spring	Hours
REL Major (CAP Faith Trad)	3 REL Major	3
REL Major	3 REL Major	3
Creative & Performing Arts	3 CAP Advanced Historical Studies	3
INSS Natural Science	3 CAP Advanced Philosophy	3
Social Science - elective	3 Social Science - 300/400 level	3
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	15	15
Fourth Year		
Fall	Hours Spring	Hours
REL Major	3 REL 490 (Satisfies CAP Major Capstone)	3
REL Major	3 REL Major	3
CAP Advanced Philosophy	3 CAP Inquiry	3
CAP Integrative	3 CAP Diversity and Social Justice	3
CAP Practical Ethical Action	3 General elective	3
General elective	2	
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	17	15

Total credit hours: 124

Courses

REL 103. Introduction to Religious and Theological Studies. 3 Hours

This course introduces students to two academic disciplines: the study of religions as historical and embodied realities, and theology as faith seeking understanding. By learning about these two disciplines, students will gain a critical self-awareness of the ways in which the modern context shapes their engagement with religion. The course emphasizes learning how to read Scripture and other primary religious sources, and to learning how the Catholic intellectual tradition addresses the question of God, the meaning of human life, and the significance of human diversity.

REL 198. Religious Studies Scholars' Seminar. 3 Hours

Study and seminar discussion of major types of religions in history and some of their practices, values, beliefs, historical development, and theological reflection, including Catholic tradition; review of major theories on the nature, origin, and function of religion in human life. Open by permission only to first-year students in the Berry Scholars Program.

REL 208. Faith Traditions: Islamic Religious Traditions. 3 Hours

Historical and topical survey of the origins and development of Islam. Prerequisite(s): ASI 110 or REL 103 or equivalent.

REL 210. Introduction to Scripture. 1 Hour

An introductory overview of Christian scripture that is foundational for Old and New Testament online courses.

REL 211. Introduction to the Old Testament. 1 Hour

Study of contemporary Old Testament studies to learn how to read a biblical text in terms of its literary qualities and cultural influences on interpretations.

REL 212. Introduction to the New Testament. 1 Hour

Introduction to the New Testament with a focus on the text's cultural contexts, literary composition, theological themes, and pastoral applications.

REL 213. The New Testament and Related Ancient Literature. 3 Hours

Introduction to historical and literary study of the New Testament with emphasis on the Gospels, the Pauline letters, and the Book of Revelation with attention given also when pertinent to early Christian Apocrypha and Jewish intertestamental literature. An analysis of early Christian faith commitments in their diversity from each other and in their diversity from those of major Christian churches today. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 214. Magic, Medicine, or Miracles: Disability in the Ancient World, the Bible, and Today. 3 Hours

Exploration of ancient attitudes towards sickness and healing including the practices observed in Greek and Roman medical authors, ancient inscriptions, the Bible, and other ancient Jewish and Early Christian texts. Study of these ancient perspectives in relation to contemporary attitudes toward disability. Prerequisite(s): (ASI 110 or ASI 120 or equivalent) or (REL 103 or REL 198).

REL 227. Faith Traditions: Beliefs in Dialogue. 3 Hours

Exploration of selected beliefs of diverse religious systems and the ways such beliefs impact social justice. Prerequisite(s): REL 103 or ASI 110 or equivalent; CMM 100.

REL 228. Faith Traditions: Historical Encounters. 3 Hours

Comparative historical exploration of changes and continuities in distinct faith traditions including the impact on social justice. Prerequisite(s): (REL 103 or ASI 110 or equivalent); CMM 100.

REL 244. Faith Traditions: Celebrating and Living the Eucharist. 3 Hours

Exploration of the history, theology, ritual, and spirituality of the Eucharist (the Mass), in dialogue with other Christian traditions, and with attention to its impact on daily Christian living. Prerequisite(s): REL 103 or ASI 110 or equivalent; CMM 100.

REL 260A. Catholic Social Teaching I. 1 Hour

The first of two courses that provide background on Catholic social teaching as articulated in the Catechism of the Catholic Church and Episcopal documents.

REL 260B. Catholic Social Teaching II. 1 Hour

The second of two courses that provide background on Catholic social teaching as articulated in the Catechism of the Catholic Church and Episcopal documents. Prerequisite(s): REL 260A.

REL 261. Faith Traditions: Human Rights. 3 Hours

Exploration of diverse faith traditions in dialogue on theory of and activism for human rights. Compares and contrasts elements of the international human rights movement with major sources from other philosophical and religious traditions, with attention to historical development and to spiritual practices for enduring, challenging, and rebuilding after suffering and injustice. Prerequisite(s): REL 103 or ASI 110 or equivalent; CMM 100.

REL 266. Faith Traditions: Moral Reasoning. 3 Hours

Exploration of diverse moral perspectives regarding social justice within religious traditions, emphasizing the cultivation of skills for dialogue about those differences. Prerequisite(s): REL 103 or ASI 110 or equivalent; CMM 100.

REL 281. Forum for Catechetical Leaders I. 1 Hour

Study of key themes of The National Directory for Catechesis regarding 'The Tasks of Catechesis and Faith Formation'. Themes include (a) Introduction to the Catechetical Ministry of the Church, (b) The Vocation of the Catechist, (c) Faith Formation, and (d) Fundamentals for Designing Catechetical Plans. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 282. Forum for Catechetical Leaders II. 1 Hour

Study of key themes of The National Directory for Catechesis regarding 'The Art of Communicating Faith: Scripture and Tradition'. Themes include (a) Effective Catechesis, (b) Four Pillars of Our Catholic Faith, (c) Integrating Scripture in Catechetical Ministry, and (d) Integrating Liturgy and Liturgical Experiences in Catechetical Ministry. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 283. Forum for Catechetical Leaders III. 1 Hour

Study of key themes of The National Directory for Catechesis regarding: 'Liturgy, Popular Devotions, Literature and the Religious Imagination. Themes include (a) Storytelling, (b) Popular Devotions and Faith Experiences, (c) Role of Mary in Catechesis, and (d) Diverse Religious Traditions and the Quest for God. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 284. Forum for Catechetical Leaders IV. 1 Hour

Study of key themes of The National Directory for Catechesis regarding: 'Discipleship (Catholic Moral Life), Catholic Social Teachings and Catechetical Planning'. Themes include (a) Developing a Pastoral Catechetical Plan, (b) Call and Challenge of Discipleship, (c) Catholic Social Teachings, and (d) Communications Technology and Catechesis. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 300. Rel of the East. 3 Hours

Course description is currently unavailable.

REL 304. Hinduism. 3 Hours

Study of the world's oldest living religion. Examines the historical development of major Hindu teachings, texts, practices and paths from ancient times to present, including forms of Hinduism taking root in the West today. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 305. Eastern Orthodoxy. 3 Hours

Exploration of the history and theology of the Eastern Orthodox Church, from the Apostles to Byzantium to Russia and the United States. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 306. Buddhism. 3 Hours

Exploration of the 2,500-year-old Buddhist tradition - the life of its founder, development of its teachings, rituals, and meditation techniques. Survey of the spread of Buddhism to the West in the twentieth century. Parallels and contrasts with the Christian tradition. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 307. Judaism. 3 Hours

Basic introduction to Judaism: its history, its faith, its worship. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 308. Islam. 3 Hours

Exploration of the Islamic religious traditions: the life of Islam's founder, the development of its teaching and ritual, its spread from North Africa into Europe, Asia, Oceania, its influence on culture and its contemporary resurgence. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 309. Afro-Latin Religions. 3 Hours

The study of Voodoo, Santeria and other religions which arose when the religious traditions of West Africa were transplanted to the Americas and the Caribbean where practitioners encountered Christianity. These religions' historical and contemporary forms as well as issues of syncretism and church-state relations are considered. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 310. The Pentateuch. 3 Hours

Examination of the first five books of the Hebrew Bible, focusing on the historical and literary traditions that relate primeval beginnings, ancestral history, the exodus, wilderness wanderings, and the legal codes. A reconstruction of the history of the text. Prerequisite(s): REL 103 or ASI 110 or equivalent and any Crossing Boundaries-Faith Traditions course.

REL 311. The Prophets. 3 Hours

Study of the prophetic texts of the Old Testament as reformulations of ancient religious traditions to meet new historical situations and study of the relevance of the prophets to contemporary life. Requires REL 103 and any Crossing Boundaries: Faith Traditions course as prerequisites. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 312. The Psalms & the Wisdom Literature. 3 Hours

Critical examination of the biblical books of Psalms, Proverbs, Job, Ecclesiastes, and Ben Sira and of related literature within the historical context in which they arose. The contemporary relevance of this literature. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 315. The Gospels. 3 Hours

With the Gospel of Mark as a point of departure, comparison of the Markan, Matthean, and Lukan narratives for an understanding of the various conceptions of Jesus found in these Gospels. The course includes historical-critical study of the Gospel to John, its text, literary techniques, structure and theology. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 316. New Testament Theologies. 3 Hours

Survey of New Testament writings with a focus on the religious ideas specific to each; special attention to authors' christology, eschatology, and soteriology; exploration of relevance of the New Testament message to Christian faith today. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 318. Studies in Paul. 3 Hours

Detailed examination of the letters of Paul, stressing the historical circumstances affecting their composition as well as the main religious ideas of Paul that govern their content. Requires REL103 and any Crossing Boundaries: Faith Traditions course as prerequisites. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 319. The Book of Revelation. 3 Hours

Detailed critical analysis of various biblical apocalyptic texts as found in Judaism and early Christianity. Focus on the Book of Revelation against the background of other biblical and intertestamental apocalyptic texts. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 322. Latino/Latina Religious Experiences. 3 Hours

Exploration of the diversity of Latino/Latina religious experiences and communities in North America, with an emphasis on Roman Catholic experiences. The course prerequisites are REL 103 or equivalent, and any Crossing Boundaries: Faith Traditions course. Prerequisite(s): (ASI 110 or REL 103 or equivalent); any Crossing Boundaries: Faith Traditions course.

REL 323. History of Early Christianity. 3 Hours

Study of the historical variables involved in Christianity's rise from an obscure first century religious movement to a respected world religion. Examination of different movements within the History of Christianity from the first century C.E. to the fourth century C.E., comparing the continuities and discontinuities between the people who have called themselves Christian in different times and places. Prerequisite(s): REL 103 or ASI 110 or equivalent, and any Crossing Boundaries: Faith Traditions course.

REL 324. History of Christianity II. 3 Hours

Study of important events, movements, ideas, and people in the development of Christianity from 1100 to the present, including the separation of the Churches of the East and West, rise of the mendicant orders, Scholasticism, key themes and figures of the Reformation, Vatican I, Modernist crisis, ecumenism, and Vatican II. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 326. Protestant Christianity. 3 Hours

Survey of the development of Protestant thought from the Reformation. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 327. United States Religious Experience. 3 Hours

Study of a variety of religious traditions in their engagement with and influence within the U.S. social and cultural context including the effects of pluralism, religious liberty, secularization, and consumer capitalism. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 328. United States Catholic Experience. 3 Hours

The growth and development of Catholic christianity in the U.S.; its interaction with America, its culture, and its people. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 329. African-American Religion. 3 Hours

An exploration of the history and theology of African-American religious traditions and how African-American religion has influenced African-American social, political, economic, and cultural movements from the time of slavery to the present. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 330. Faith of Immigrants. 3 Hours

This course will examine the faith traditions of all those people who came to the United States, either voluntarily or involuntarily, and the changes that they made upon those who were there before them, the changes in their own faith, and the effect upon other faith traditions. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 344. Christian Marriage. 3 Hours

Analysis of the sanctifying dignity of Christian marriage as a sacrament and commitment to share in the divine creative plan. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 352. Understanding Sacred Music in Worship in the Local Church. 3 Hours

Study of the important relationship between music and worship in the life of the individual and in the life of the corporate Christian church with an emphasis on developments in recent decades. Studies the distinction and interconnectedness of the local church (congregation) and the Institutional Church. An historical overview of music and worship with Biblical foundations is provided. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 356. The Christian Tradition of Prayer. 3 Hours

Study of several types and forms of Christian prayer from various periods in Church history. The meaning of the act of faith expressed in prayer and its relationship to belief. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 358. Liberation Theologies. 3 Hours

Study of the theology of liberation and its specific expression among theologians of the Third World, particularly Latin America. Prerequisite(s): REL 103 or ASI 110 or equivalent; any Crossing Boundaries: Faith Traditions course. Jr. standing or higher.

REL 359. The Road to Hell: The Apocalypse in Classical and Contemporary Forms. 3 Hours

Study of depictions of the apocalypse in classical and contemporary literature, film and speech with special attention to the rhetorical dimensions of those messages.

REL 360. Christian Ethics. 3 Hours

Introduction to the reflection upon Christian morality; discussion of various approaches in Christian ethics, the elements of ethical judgments, and some specific ethical issues. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 362. Christian Family Values & Television. 3 Hours

Comparative study of the criteria and rationale for family life in various Christian pronouncements with present values and practices in society as reflected in and promoted by current television programming. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 363. Faith & Justice. 3 Hours

This course explores the history, development, and basic principles of Catholic social teaching as well as other approaches to faith and justice. Issues of economic justice will receive special emphasis. In addition to church documents, the life and work of religious thinkers and activists will be examined. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 364. Current Moral Issues. 3 Hours

An examination of one or more issues (individual and/or social) in contemporary reflection on Christian moral life. May be repeated when topic changes. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 365. Christian Ethics & the Environment. 3 Hours

Christian ethic of relationality and responsibility. Explores various approaches and related values found in society; elements of ethical judgments; and specific ethical issues resulting from ecofeminist, technological, and ecological awareness. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 366. The Holocaust: Theological & Religious Responses. 3 Hours

Examination of the religious and theological literature of the Holocaust, focusing especially on Jewish and Christian responses. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 367. Christian Ethics & Health Care Issues. 3 Hours

Study in virtue ethics related to contemporary practices of health care. Community engaged learning is a required component of the course. Prerequisite(s): ASI 110 or REL 103 or equivalent; Junior standing or higher; Any Crossing Boundaries: Faith Traditions course.

REL 368. Christian Ethics & the Business World. 3 Hours

Study in Christian ethics related to contemporary practices of business. Course prerequisites: (ASI 110 or REL 103 or equivalent); any Crossing Boundaries; Faith Traditions Course. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 369. Engineering Ethics by Design: Theological Ethics and Engineering. 3 Hours

Study in theological virtue ethics using engineering design as the paradigm for practical reasoning in both technology and everyday life. Intended for junior- or senior-level standing engineering students. Is in keeping with ABET standards which require ethics instruction for students enrolled in accredited engineering programs. Practice in formulating proper ethical arguments using standard notions of claim, grounds, warrant and backing. Course culminates in design teams constructing proper ethical argument (claim, grounds, warrants, backing) over some contemporary engineering artifact, process or issue. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 372. Religion & Film. 3 Hours

Study of issues common to narrative films and religious thought; the power of various film techniques, dominant models in religious and film reflection, the similar roles imagination plays in film and religious thought. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 373. Religion & Literature. 3 Hours

Joint study of literature and religion, seeking the sacred in the secular, discussing the doctrines of humans and of God in major modern writings, especially those of current collegiate interest. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 374. Religion & the Arts. 3 Hours

Investigation of the religious interpretation of various art forms and the process by which the aesthetic experience assists in theological perception and construction. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 375. Religion & Science. 3 Hours

RELIGION AND SCIENCE - Surveys of the ways science has affected religion on specific doctrines, methods of knowing what is true, and general world views; study of religious response to these. (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 376. Theology & the Social Sciences. 3 Hours

Exploration of developments in Christian theology that have paralleled the rise of the human sciences, in particular of concepts of God, humanity, Church, sacraments, sin, and salvation in the light of history, anthropology, psychology, and sociology. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 377. The Inner Journey in Myth, Bible & Literature. 3 Hours

Study of stories of heroic figures in the Bible and in other literature as patterns of personal and spiritual development. Throughout, efforts to relate the material to the needs of contemporary persons. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 378. Religion, Society and Global Cinema. 3 Hours

Interdisciplinary survey of the post-World War II film movement of Italian neorealism and its influence in global cinema. Major films, directors and critical debates involving neorealism will be examined. Topics include cinema and society, religion and movies, and culture and Catholicism. (REL 103 or ASI 110 or equivalent) and any Crossing Boundaries: Faith Traditions course. Prerequisite(s): REL 103 or ASI 110.

REL 383. Philosophy of Religious Education. 3 Hours

An attempt to construct a philosophy of religious education, various contemporary theoretical models, dimensions of teaching religion in a pluralistic society, the polarization generated. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 399. Readings in Religious Studies. 1-3 Hours

Directed readings in a specific area of interest under the supervision of a staff member. May be taken more than once. By permission only. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 3XG. Non-equivalent transfer. 1-3 Hours**REL 425. Augustine. 3 Hours**

The life and work of Augustine of Hippo (354-430), a major theologian of Western Christianity. His influence is strongly felt in both Protestant and Catholic traditions in areas of sexual ethics, church-state relations, Trinitarian and sacramental theology. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 429. Modern Catholicism. 3 Hours

An examination of Modern Catholicism based on a close study of the context, process, decisions, implementation, and challenges of Vatican II in the Roman Catholic Church. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 437. Significance of Jesus. 3 Hours

Emphasis on the identity of Jesus and on the significance that his ministry, death, and resurrection have for the salvation of humankind. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 440. The Church. 3 Hours

A Catholic and ecumenical study of the meaning of the Church which explores key documents of the Second Vatican Council, the meaning of vocation, and the mission of the Church in the world of today. Prerequisite(s): (REL 103 or ASI 110 or equivalent) and any Crossing Boundaries: Faith Traditions course.

REL 441. Theology of Mary. 3 Hours

Using the sources of Scripture and Sacred Tradition, and with particular reference to the documents of the Second Vatican Council (1962-65), this course is dedicated to theological reflection on the person of Mary, the Mother of God, in the context of the other central truths of the Catholic faith. The course requires two prerequisites: Either (ASI 110, 120 or equivalent) or (REL 103 or REL 198), and any Crossing Boundaries: Faith Traditions course. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 442. God & Atheism. 3 Hours

Study of some recent contributions made by theology, philosophy, psychology, and the humanities to the current discussion of God's existence, nature, and relationship to humanity. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 443. The Sacraments. 3 Hours

Study of the meaning of sacramentality. The sacraments in the context of Christ as the sacrament of the human encounter with God and in the context of the Church as the sacrament of Christ. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 444. God in Christian Tradition. 3 Hours

Review of theologies of God in Christian tradition, from biblical through contemporary sources, especially as these theologies have affected overall Catholic thought and spirituality. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 446. Christian Liturgy. 3 Hours

Study of the basic principles of liturgy, the development of some of the basic forms of liturgy, and applications of the principles within current rites. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 447. Selected Catholic Doctrines. 3-4 Hours

Detailed study of several important current theological questions primarily from a Catholic systematic and historical perspective. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 449. Aquinas. 3 Hours

Theology of Aquinas including: Trinity, human nature, providence, grace, virtue, Christ, and sacraments. Some attention given to historical context and contemporary interpretation, but the main focus will be reading and understanding the Summa. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 471. Women & Religion. 3 Hours

Examination of the impact of the women's movement on Judaism, Christianity, and other major world religions. Survey of traditional religious attitudes toward women. Relevance of feminist approaches to scripture, ethics, spirituality, and ministry in understanding contemporary global issues. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 472. Ecology & Religion. 3 Hours

Examination of the relationship between religion and ecology; bridges the contributions of traditional theological inquiry and modern scientific insights and offers an enlarged vision of ecological concerns. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 474. Women & the Global Church. 3 Hours

An exploration of the intersection between faith communities, traditional and non-traditional, and particular cultures in the lives of contemporary women. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

REL 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

REL 484. Practicum. 3 Hours

Supervised in-service experience in an area of religious education chosen by the student. By permission only. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 485. Lay Ministry. 3 Hours

Critical examination of lay ministry and its theological basis, in light of Vatican II and recent trends in the world and Church. Special topics: family ministry, ministry in the marketplace, leadership, evangelization, catechesis, women, social justice. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 485H. Lay Ministry. 3 Hours

Critical examination of lay ministry and its theological basis, in light of Vatican II and recent trends in the world and Church. Special topics: family ministry, ministry in the marketplace, leadership, evangelization, catechesis, women, social justice. Prerequisite(s): (ASI 110, 120 or equivalent) or (REL 103 or REL 198).

REL 487. Religious Education- Theory & Practice. 3 Hours

Study of theory and practice of religious education for those who will be teaching religion in the school and parish. Various models and methods. Emphasis on process and religious education as developmental. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 488. Spirituality & Religious Education. 3 Hours

Exploration of impact of liturgy and spirituality on contemporary models of religious education; study of interrelationship between faith experience and religious content; basic principles for developing practical programs. Prerequisite(s): REL 103 or ASI 110 or equivalent.

REL 490. Capstone Seminar. 3 Hours

Integrative academic experience focused on student-produced research and scholarship in various fields of religious/theological studies. Required of all REL majors, open to REL minors. Must have 24 credits including one 400 level REL course.

REL 492. Special Topics. 1-3 Hours

Concentrated study of issues and subjects pertinent to religion. May be repeated when topic changes. Prerequisite(s): REL 103 or ASI 110 or equivalent.

Sociology, Anthropology, and Social Work

Major:

- Bachelor of Arts, Sociology (p. 278)

Minors:

- Sociology (p. 278)
- Anthropology (p. 278)
- Social Work (p. 278)

Sociology is the scientific study of all levels of society, that is, people in groups. The discipline's unique insight is that people are who they are largely because of their social experiences and interactions with others. "The sociological imagination" enables us to understand the relationship between our individual experiences and the broader social context, from the local to the global. Beyond various aspects of social behavior, sociologists study the nature and causes of social problems such as poverty, racism, family instability, and crime. Sociologists strive to apply their understanding in ever more constructive ways for the improvement of society and the common good.

Students intending to major or minor in sociology should consult with the department chairperson to plan their program of courses. The requirements for majoring in sociology are stated in the outline below. Criminal justice studies is also one of the majors listed in this department. View CJS program requirements. (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsstudy/criminaljusticestudies>)

The minors in sociology, anthropology, and social work consist of 15 semester hours. The minor in criminal justice studies consists of 18 semester hours.

Faculty

Leslie Picca, Chairperson

Professors: Curran, Davis-Berman, Donnelly, T. Majka

Associate Professors: Becker, Dasgupta, Jipson, Leming, Picca

Assistant Professors: Hallett, Holcomb, Longazel, Small, Thompson-Miller

Lecturers: Gibbs, Litka

Bachelor of Arts, Sociology (SOC) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

- ¹ Completed with ASI 110 and ASI 120.
- ² Or ENG 100A and ENG 100B, or ENG 200H, by placement.
- ³ Completed with ENG 200H or ASI 120.
- ⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

Creative and Performing Arts (May include CAP Arts)	3
L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences, excluding SOC courses (Includes CAP Social Science)	12

Major Requirements ¹

SOC 101 Principles of Sociology	3
or SOC 204 Modern Social Problems	
SOC 208 Social Research Methods	3
SOC 308 Data Analysis	3
SOC 351 Urban Sociology	3
SOC 408 Senior Project Design	1
SOC 388 Social Theory	3

SOC 409 Senior Project Capstone (Satisfies CAP Major Capstone)	3
Select six SOC courses (May include CAP Components) ²	18

Breadth

ASI 150 Introduction to the University Experience	1
Total Hours to total at least	124

- ¹ May include CAP Components.
- ² A total of no more than six semester hours of field experience or internship from SOC 495, SOC 497, SWK 401, SWK 497, ANT 449, or ANT 497 may count toward the required thirty-seven semester hours for a sociology major. Up to nine hours total may be taken in anthropology and/or social work for a sociology major. These hours may also be used toward the completion of a minor.

Minor in Anthropology (ANT)

Anthropology is the study of people at all times and places. It emphasizes understanding total cultural systems. A minor in anthropology consists of 15 semester hours. Students intending to minor in anthropology should consult with the department chairperson to plan their selection of courses.

Anthropology

ANT 150 Cultural Anthropology	3
Select four ANT courses (300/400 level)	12
Total Hours	15

Minor in Social Work (SWK)

Social work is the profession sanctioned by society to provide social services. It is the professional activity of helping individuals, groups, or communities to enhance or restore their capacity for social functioning. The profession also engages in activities aimed at facilitating societal conditions that enhance and/or restore social functioning.

A minor in social work consists of 15 semester hours.

Social Work ¹

Select fifteen SWK semester hours ²	15
Total Hours	15

- ¹ No more than six semester hours of field experience credit can be accepted toward the minor. The field experience course requires students to take or have taken SWK 201, Social Work Practice.
- ² At least twelve semester hours at the 300/400 level.

Minor in Sociology (SOC)

Sociology

Select fifteen SOC semester hours ¹	15
Total Hours	15

- ¹ At least twelve semester hours at the 300/400 level.

Bachelor of Arts, Sociology

First Year	Hours Spring	Hours
Fall		
ASI 150	1 SOC elective	3

SOC 101	3	ENG 100 (CAP Humanities Commons)	3
HST 103 (CAP Humanities Commons)	3	MTH 114 or 207 (Satisfies CAP Mathematics)	3
PHL 103 (CAP Humanities Commons)	3	REL 103 (CAP Humanities Commons)	3
CMM 100 (CAP Communication)	3	SCI 210 & 210L (CAP Natural Science w/ lab)	4
SCI 190 & 190L (CAP Natural Science w/lab)	4		
	17		16

Second Year

Fall	Hours	Spring	Hours
SOC 351	3	SOC 308	3
SOC 208	3	SOC Elective	3
SSC 200 (CAP Social Science)	3	ENG 200 (CAP Writing Seminar)	3
ANT 150 (CAP Inquiry, Diversity and Social Justice; Social Science - intro level)	3	Language 141	4
Language 101	4	SCI 230 (INSS Natural Science)	3
	16		16

Third Year

Fall	Hours	Spring	Hours
SOC 388	3	SOC 408	1
SOC elective	3	SOC elective	3
SOC elective	3	SOC elective	3
CAP Arts / Creative and Performing	3	POL 201, 202, or 214 (Social Science - elective)	3
Language 201 or contextual course	3	CAP Faith Traditions General elective	3
	15		16

Fourth Year

Fall	Hours	Spring	Hours
SOC 409 (Satisfies CAP Major Capstone)	3	POL or ANT at 300 or 400 level	3
CAP Practical Ethical Action	3	CAP Advanced Philosophy/ Religious Studies	3
CAP Integrative	3	CAP Advanced Historical Studies	3
CAP Advanced Philosophy/Religious Studies	3	Literature	3
General elective	3	General elective	3
	15		15

Total credit hours: 126

Anthropology Courses**ANT 150. Cultural Anthropology. 3 Hours**

Overview of the basic principles of cultural anthropology. Survey of human adaptation to and transformation of the environment by means of culture. Comparison of ways of life among peoples of the world to better understand human behavior, particularly in relation to colonial histories and current global forces. Required for anthropology minors.

ANT 300. Evolution of People & Culture. 3 Hours

Survey of human biological and cultural evolution from prehuman ancestors to settled city-states. Consideration of contemporary peoples at various levels of social complexity.

ANT 306. Culture & Power. 3 Hours

Exploration of how culture and power are intertwined in the process of transformation of cultural beliefs and practices around the world. Focus on the ways in which anthropologists have studied modern state formation, and the attendant cultural politics, in local, regional, national, and global contexts. Sophomore standing or higher.

ANT 310. Culture & Personality. 3 Hours

Survey of studies investigating the relationship between cultural environment and the individual. Material drawn from both literate and nonliterate societies.

ANT 315. Language & Culture. 3 Hours

Students examine the relationship between language, thought, and behavior centering on human interaction and social justice in a variety of cultural contexts.

ANT 320. Anthropology of Childhoods. 3 Hours

Survey of anthropology research on issues related to children and childhood. Cross-cultural comparison of changing conceptions and varied experiences of the developmental stage known singularly as 'childhood', with a special emphasis on children as social agents and childhoods as lived experiences. Sophomore standing or higher.

ANT 325. Anthropology of Human Rights. 3 Hours

An overview of anthropological approaches to human rights, weighing human rights universals against situations of cultural particularity. Sophomore standing or higher.

ANT 335. Urban Anthropology. 3 Hours

Survey of anthropology research on urban issues. Considers how cities arose and how urban people make a living, organize, and think. Considers urban futures.

ANT 336. Epidemics, Power & the Human Condition. 3 Hours

Epidemics, Power and the Human Condition.

ANT 350. Anthropology of Tourism. 3 Hours

Students examine the study of tourism as an academic discipline, including its historical development, current sub-fields and theoretical approaches, and the future of this industry in the globalized world.

ANT 352. Cultures of Latin America. 3 Hours

Survey of Latin American culture from an anthropological perspective, ranging from the pre-Colombian era through colonial and up to the contemporary period. Themes include race, gender, colonialism, economics, politics, kinship, religion, tourism, immigration, food, and popular culture. Sophomore standing or higher.

ANT 356. Cultures of Africa. 3 Hours

Examination of Africa through the lens of anthropology. Exploration of late colonial and postcolonial eras, with a focus on gender, kinship, ethnicity, politics, religion, and prospects for the future. Consideration of the production of knowledge about and dominant representations of Africa. Sophomore standing or higher.

ANT 360. Making of Modern South Asia. 3 Hours

Historical survey and an anthropological exploration of the major political, economic, social, ecological, and cultural developments that have contributed to the making of region we now know as 'South Asia.' India, Pakistan, Bangladesh, Nepal, Sri Lanka, Bhutan, Maldives and Afghanistan. Prerequisite(s): HST 103 or equivalent.

ANT 368. Immigration & Immigrants. 3 Hours

Perspectives on immigration and ethnicity. Studies of social and economic adaptation of new immigrants and the second generation in communities, cities, and societies. Ethnic change, conflict, and contemporary national and international issues, with an emphasis on human rights. Sophomore standing or higher.

ANT 392. Special Topics in Anthropology. 1-6 Hours

Intensive examination of current thematic, theoretical, or methodological issues from the viewpoint of anthropology. May be repeated as topics change. Sophomore standing or higher.

ANT 449. Anthropological Field Work. 3 Hours

Students learn anthropological methods of data collection (participant observations, interviews, questionnaires, focus groups, archives, scholarly research) and analysis. Prerequisite(s): ENG 200; SSC 200.

ANT 477. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

ANT 478. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

ANT 497. Service Learning Experience. 1 Hour

Supervised community research or service experience that complements a specific upper division course in Anthropology. Repeatable up to three semester hours. Prerequisite(s): Permission of instructor. Corequisite(s): A 300-400 level Anthropology course.

ANT 498. Independent Study. 1-6 Hours

Research problems or readings of special interest investigated under the guidance of an anthropology staff member. Prerequisite(s): Permission of department chairperson.

Social Work Courses**SWK 201. Social Work Practice & Profession. 3 Hours**

Study of the historical and theoretical underpinnings of the social work profession. Study of social work practice theory and technique.

SWK 303. Community Practice & Research. 3 Hours

Study of the design and implementation of community research, including needs assessment and program evaluation in the social service system. (Same as SOC 309.) Prerequisite(s): SOC 101 or SOC 204; permission of instructor.

SWK 305. Social Services in the Health Field. 3 Hours

The role of social services in health care facilities and governmental health programs. U.S. health care policies and programs; methods of social work intervention in medical settings.

SWK 307. Mental Health Services. 3 Hours

Study of historical perspectives, deinstitutionalization, the community mental health movement, inpatient care, and innovative approaches. Policy and practice implications are examined. This course is normally taken in the Junior or Senior year.

SWK 310. Law & Human Services. 3 Hours

Orientation to the legal system as it affects the provision of human services and the profession; social legislation and court decisions as they affect child welfare, public assistance, mental health, housing, and probation and parole services.

SWK 325. Child Abuse. 3 Hours

Comprehensive study of child abuse: its history, scope, causal factors, indicators for detection, treatment resources and modalities, and community responsibility.

SWK 327. Parenting: Social Welfare Role. 3 Hours

Comprehensive study of historical and contemporary perspectives on parenting, future of parenting (assessing trends and choices in family structure and function), cross-cultural comparisons, policy and legal aspects of parenting, societal influences on parenting.

SWK 330. Perspectives on Aging. 3 Hours

An introduction to the field of gerontology. Focus on the major physical, psychological, and social dynamics of aging. Selected issues will be highlighted. This course is normally taken in the Junior or Senior year (Same as SOC 330.).

SWK 331. Death, Dying and Suicide. 3 Hours

Applied study of the phenomena of death and dying. The role and responsibility of the professional in working with the dying and their survivors. Study of suicide in contemporary U.S. society. This course is normally taken in the Junior or Senior year.

SWK 335. Social Work & Environmental Justice. 3 Hours

Study of the impact of environmental degradation upon individuals and communities and the role of social work in advocating for environmental justice. Topics include health, disasters, environmental degradation, human rights, and advocacy.

SWK 360. International Social Work. 3 Hours

Study of the role of social workers in international contexts. Topics include migration, globalization, development, conflict, and the ethical implications of social workers practicing internationally.

SWK 370. Social Welfare Policy. 3 Hours

Study of U.S. social welfare policy and its impact upon populations of interest to social workers and other helping professionals. Topics include history of social welfare policy, ideologies that inform social welfare policy, attention to the gendered nature of social policy, international social welfare policy, contemporary policy debates and the role of social workers and allies in the policy arena.

SWK 392. Special Topics. 1-3 Hours

Exploration of special topics related to the field of human services. Assessment of appropriate literature and research. May be repeated as topics change.

SWK 3XY. Non-equivalent transfer. 3 Hours**SWK 401. Community Field Experience. 5 Hours**

Supervised field experience for students working in a micro or macro practice setting. Concurrent seminar includes intensive basic communication and interviewing skill development. Students spend 150 hours in the agency. Prerequisite(s): SWK 201; permission of instructor.

SWK 465. Independent Study. 1-3 Hours

Individual research, study, and readings on specific topics and/or projects of importance to social work. Under individual faculty direction. Prerequisite(s): Permission of instructor.

SWK 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approval of University Honors Program.

SWK 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

SWK 497. Service Learning Experience. 1 Hour

Supervised community research or service experience that complements a specific upper division course in Social Work. Repeatable up to three semester hours. Prerequisite(s): Permission of instructor. Corequisite(s): A 300-400 level Social Work course.

Sociology Courses**SOC 101. Principles of Sociology. 3 Hours**

Study of social groups, social processes, and society; the individual's relationship to society, social structure, social inequality, ethnic minorities, cities and human populations, and social institutions such as the family, education, religion, and government.

SOC 204. Modern Social Problems. 3 Hours

Course to familiarize nonsociology majors with contemporary problems in society; historical development, current status, and analysis of problems, using modern social theories. Content may vary from section to section.

SOC 208. Social Research Methods. 3 Hours

Study of the logic of research design, data-gathering strategies, types of measurement, and sampling techniques. Both inductive and deductive approaches. Participation in research projects. Prerequisite(s): SOC 101 or SOC 204.

SOC 305. Criminological Theory. 3 Hours

Study of the major theories of crime; consideration of the implications of theory for the criminal justice system. Prerequisite(s): SOC 101 or SOC 204.

SOC 308. Data Analysis. 3 Hours

The analysis and interpretation of both quantitative and qualitative social science data. Prerequisite(s): SOC 208. Corequisite(s): SOC 308L.

SOC 308L. Data Analysis Laboratory. 1 Hour

Training in appropriate computer programs and computer analysis of social science data. Prerequisite(s): SOC 208. Corequisite(s): SOC 308.

SOC 309. Community Practice & Research. 3 Hours

Study of the design and implementation of community research, including needs assessment and program evaluation in the social service system. (Same as SWK 303.) Sophomore standing or higher.

SOC 310. Perspectives on Education and Social Justice. 3 Hours

This Inquiry course gives students a set of lenses to critically evaluate contemporary issues around schools and schooling from a social justice perspective. The course focuses on educational and social scientific research methodologies used for investigating educational inequalities.

SOC 321. The Sociology of Work & Occupations. 3 Hours

Survey of the major features of work and occupations in industrial society. The meaning of work, occupational choice and recruitment, occupational socialization, career patterns, and occupational rewards. Unemployment, underemployment, sex-typing, automation and alienation.

SOC 322. Sex Roles & Society. 3 Hours

Research findings and major analytical approaches to study social and cultural influences on the development of personal sexual identity and relationships between men and women. Major social issues concerning human sexuality.

SOC 323. Juvenile Justice. 3 Hours

The environmental and internal factors that influence or determine delinquent behavior; roles of individual juvenile offenders, parents or guardians, school, church, police, business community, community agencies, and the juvenile justice and correctional system in preventing and treating delinquent behavior. Prerequisite(s): Sophomore standing or higher.

SOC 325. Deviant Behavior. 3 Hours

Description of various types of deviant behavior; for example, mental illness, alcoholism, drug addiction, the professional criminal. Study of explanations for the consequences and the role of deviant behavior in modern society. Sophomore standing or higher.

SOC 326. Law & Society. 3 Hours

Study of the legal system and practices from a sociological point of view; the historical origin and role of the law in society, issues relating to the law as an instrument of social control and/or social change; analysis of the legal profession.

SOC 327. Criminology. 3 Hours

Social and cultural nature, origin, and development of law; criminal behavior; crime control. The influence of society in the creation and organization of legal and crime control systems. Biological, psychological, and sociological factors leading to criminal behavior. Sophomore standing or higher.

SOC 328. Racial & Ethnic Relations. 3 Hours

Study of the historical and contemporary experiences of racial and ethnic groups in the United States and globally. Examines how racial and ethnic relations function in the political, social, legal, and economic systems, and how this impacts privilege, oppression, and resistance.

SOC 330. Perspectives on Aging. 3 Hours

An introduction to the field of gerontology. Focus on the major physical, psychological, and social dynamics of aging. Selected issues will be highlighted. (Same as SWK 330.)

SOC 331. Marriages & Families. 3 Hours

The course focuses on patterns of family formation and contemporary trends in family life. Topics covered include gender, sexuality, dating, mate selection, singlehood, marriage, reproduction, work and families, divorce, remarriage, and families in later life. Sophomore standing or higher.

SOC 332. Gender and Society. 3 Hours

Overview of the ways that sociologists study and understand gender. Course includes a foundation in gender theory as well as investigation of empirical topics such as media, education, work, health, crime, and sexuality. Course is intersectional in approach, examining the ways that gender intersects with other identity categories, such as race, class, age, and sexuality.

SOC 333. Sociology of Sexualities. 3 Hours

Examination of theoretical, ethical, and conceptual issues, empirical research and social policies germane to the sociological study of human sexualities. Topics include: sexual identity and orientation; sexuality throughout the life-course; sexual assault and coercive sexuality; social control of sexuality; social locations (race, class, and gender) and sexuality; and the relationship between sexuality and the socio-political process. Prerequisite(s): Sophomore standing or higher.

SOC 334. Religion & Society. 3 Hours

Definitions of religion and its role in society. Traditional and nontraditional expressions of religious life from the viewpoint of society. Varieties of religious experience and the interrelations between religious phenomena and other social institutions and societal behavior. Sophomore standing or higher.

SOC 336. Organizations in Modern Society. 3 Hours

Analysis of the dynamics of organizations in modern industrial society. Organizational social psychology, organizational structure and process, and organization-community relations. Sophomore standing or higher.

SOC 337. Political Sociology. 3 Hours

Study of political power. Political influence by economic elites, impact of bureaucracies, competing ideologies, alienation and nonvoting, and social movements as challenges to power structures. Sophomore standing or higher.

SOC 339. Social Inequality. 3 Hours

Study of the historical and contemporary experiences of groups in society in terms of social inequality. Examines social structures and how they contribute to social hierarchy and inequality. The students will examine the wealthy, middle class, and the poor in society. Emphasis on the processes that divide people into unequal groups based on wealth, income, status, and power. The effects of social inequality on an individuals' life chances will be examined in this course.

SOC 340. Social Psychology in Society. 3 Hours

Survey of the basic principles, concepts, theories, and methods of social psychology from the sociological perspective. Sophomore standing or higher.

SOC 341. Self & Society. 3 Hours

Study of the relationship between self and others. Socialization, self conceptions, deviant behavior, social influence, and social control.

SOC 342. Collective Behavior. 3 Hours

Study of social protest, crowds, social movements, revolution, fads, fashion, public opinion processes, propaganda, and political and social responses to these phenomena. Sophomore standing or higher.

SOC 343. Mass Communication in Modern Society. 3 Hours

Social-psychological analysis of the structure and processes of mass communication related to advertising, patterns of social behavior, social change, propaganda, censorship, media control, and social institutions.

SOC 344. Interaction Processes. 3 Hours

Study of the interaction processes of social life. Bargaining and negotiation, cooperation, social influence, solidarity, competition, and conflict. Prerequisite(s): SOC 101 or SOC 204.

SOC 345. Sociology of Extremism. 3 Hours

Study of the social understanding and social construction of identity, otherness, difference, and extremism in such cases as the development of white racial extremism in the United States. Sophomore standing or higher.

SOC 348. Crime, Film & Society. 3 Hours

This course will examine the portrayal of crime and justice in feature length films and how these films influence how our society views issues related to crime. The primary focus will be on the American criminal justice system (law enforcement, courts, and corrections) and the broader topic of justice. Sophomore standing or higher.

SOC 350. Art and Social Practice. 3 Hours

Exploration of varying modes of collaborative art production, for both artists and non-art students, towards the end of understanding and organizing for effective social change and/or inquiry within studio and community settings. Students organize, produce and exhibit an interdisciplinary group project developed utilizing a sociological lens in an off-campus or social media space.

SOC 351. Urban Sociology. 3 Hours

The study of the development of urban life from ancient times to the present, with an emphasis on contemporary urban population characteristics, social-economic-political structure, and problems. Prerequisite(s): SOC 101 or SOC 204.

SOC 352. Community. 3 Hours

Study of the interaction of groups and individuals related by common situations, problems and intentions; creation, maintenance, eclipse, and restoration of close social ties in urban neighborhoods, small towns, and groups with similar interests and lifestyles.

SOC 353. Internet Community. 3 Hours

The relationship between information and communications technologies, particularly the Internet, in contemporary society is examined. Topics will range from differential access to cultural production with an emphasis on the intersections of online and offline communities. Prerequisite(s): Sophomore status.

SOC 354. Perspective on Childhood. 3 Hours

No description available.

SOC 355. Families & the Economy. 3 Hours

The relationship between families and their socio-economic environment. Consideration of public issues including family policy and government programs to assist families. Sophomore standing or higher.

SOC 360. Sport and Bodies. 3 Hours

Critical examination of the historical and contemporary ways in which the human body is altered/modified, displayed/portrayed, valued/devalued, and included/excluded in terms of gender, race, social class, and ability status within sports. This course will examine how sport and bodies function in the political, social, and economic systems of the U.S. and globally. Using the perspectives of health and sport sciences and sociology, this course examines sport and bodies from macro and micro perspectives.

SOC 368. Immigration & Immigrants. 3 Hours

Perspectives on immigration and ethnicity. Studies of social and economic adaptation of new immigrants and the second generation in communities, cities, and societies. Ethnic change, conflict, and contemporary national and international issues, with an emphasis on human rights. Sophomore standing.

SOC 371. Sociology of Human Rights. 3 Hours

Study of the sociological theories and research about human rights violations in the United States as well as globally. The course examines economic, cultural, social, health, and political rights. Human Rights are examined as gendered, racialized, and sexualized.

SOC 384. Food Justice. 3 Hours

Diversity, social inequality and social justice are integral aspects of the fields of health science, sociology, and humanities. These issues particular to food are relevant in thinking about the challenges that people in Dayton and around the globe face. Through the combined analysis of at least two academic units, students will learn how to perform descriptive and normative analysis, as well as how to focus on pragmatic opportunities to address and ameliorate food injustice. Prerequisite(s): Sophomore-status.

SOC 388. Social Theory. 3 Hours

Consideration of the works of classical and modern theorists and major trends in historical and contemporary social thought. Prerequisite(s): SOC 101 or SOC 204.

SOC 392. Selected Topics in Sociology. 1-6 Hours

Examination of a current topic of general interest in sociology. Majors and nonmajors may enroll. Consult composite for topics. May be repeated as topic changes. Sophomore standing or higher.

SOC 394. Popular Culture. 3 Hours

Introduction to an understanding of popular culture and the entertainment industry, culture trends, popular entertainers and performers and what they reveal about society. This course examines the nature of musical choice, television, radio, Internet, genres and styles, distribution, performance, and the social construction of popular culture. Sophomore standing or higher.

SOC 398. Social Science Scholars' Seminar. 3 Hours

Study and seminar discussion of selected sociological writings and the analysis, interpretation and criticism of these works. Open only to students in the Berry Scholars Program. Prerequisite(s): ENG 198; HST 198.

SOC 408. Senior Project Design. 1 Hour

Preparation for sociology capstone course with a focus on a workable research topic, literature review, and research methods design. Required for Sociology majors. Prerequisite(s): SOC 308, SOC 388.

SOC 409. Senior Project Capstone. 3 Hours

Capstone experience for sociology majors consisting of a seminar on research and writing in sociology, an empirical research project, and a written and oral presentation of the research. Students will reflect on how sociological research will influence their professional and personal activities and how they will serve their communities. Prerequisite(s): SOC 408.

SOC 410. Victimology. 3 Hours

The study of victimization including the relationships between victims and offenders, the interactions of victims and the criminal justice system and other social groups and institutions. Prerequisite(s): SOC 101 or SOC 204; 12 hours of course work in the social sciences.

SOC 426. Leadership in Building Communities. 3 Hours

Investigation of the processes by which urban neighborhoods develop themselves from the inside out. Students cultivate their own interdisciplinary appreciation of urban communities through extensive interaction with one neighborhood's visioning process. Topics include asset-based community development, social capital, citizenship, adaptive leadership, and community building strategies and tools. Same as POL 426. Prerequisite(s): Junior standing.

SOC 432. Structure of Privilege. 3 Hours

Study of the theoretical and conceptual issues, empirical research, and social policies germane to the sociological analysis of privilege. Topics include whiteness, men and masculinities, class-privilege, heterosexuality and heterosexism, and intersectionality. Sophomore standing or higher.

SOC 435. Sociology of Globalization. 3 Hours

Sociological analysis of modern economic institutions, with an emphasis on classical themes. Topics include capitalism, industrialism and social consequences of contemporary economic trends. Empirical research will be required. Sophomore standing or higher.

SOC 437. Marx & Sociology. 3 Hours

Study of Marx's writings on topics relevant to the social sciences. Comparison of contemporary Marxian scholarship in such areas as social inequality, political structures, urban change, ideology and consciousness, and models for the future. Prerequisite(s): SOC 101 or SOC 204; junior or senior standing.

SOC 438. Urban Poverty. 3 Hours

Study of the social factors that contribute to poverty in cities. Consideration of the social effects of government and other programs to alleviate poverty. Sophomore standing or higher.

SOC 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

SOC 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

SOC 492. Special Topics in Sociology. 1-6 Hours

Intensive examination of current theoretical or methodological issues; faculty-advised research project or library work. Consult composite for topics. May be repeated as topic changes. Prerequisite(s): SOC 101 or SOC 204; permission of instructor.

SOC 495. Sociology Internship. 1-6 Hours

Supervised work experience related to course work in sociology in appropriate government, social service, and private organizations. May be repeated to a maximum of six semester hours. Prerequisite(s): Permission of department chairperson.

SOC 497. Service Learning Experience. 1 Hour

Supervised community research or service experience that complements a specific upper division course in Sociology. Repeatable up to three semester hours. Prerequisite(s): Permission of instructor. Corequisite(s): A 300-400 level Sociology course.

SOC 498. Independent Study. 1-6 Hours

Research or special readings on problems of interest to the student under the guidance of sociology staff member. Prerequisite(s): Permission of department chairperson.

Sustainability, Energy, and the Environment

The minor in Sustainability, Energy and the Environment (SEE) is a multidisciplinary effort to encourage students to explore complex societal sustainability issues that do not fit easily into one traditional academic discipline. The genesis of this program lies in the realization that a scientific and technical knowledge of environmental, ecological, and energy system challenges will not be sufficient to develop viable answers. Many disciplines at the University make contributions to these issues, ranging from ethical, spiritual, and artistic, to economic, political, and sociological approaches. Students will be introduced to the minor through a seminar-style course, will take at a minimum two further team-taught and interdisciplinary courses, and will gain experience in interdisciplinary research.

Students desiring to minor in sustainability, energy, and the environment should notify the program coordinator.

Sustainability, Energy, and the Environment Advisory Committee

Katie Schoenenberger (Hanley Sustainability Institute and Geology),
Coordinator

Beagle (Chemistry), Bednarek (History), Bohrer (Fitz Center), Brecha (Physics), Cuy Castellanos (Dietetics), Fouke (Philosophy), Hallinan (Mechanical Engineering), Hatcher (Facilities Management), Holcomb (Sociology), Jablonski (Marianist Environmental Education Center and Religious Studies), Jennings (Art and Design), King (Rivers Institute), McEwan (Biology), Pautz (Political Science), Potter (English), Wu (Geology)

Minor in Sustainability, Energy, and the Environment (SEE)

Sustainability, Energy and the Environment ¹

SEE 250	Introduction to Sustainability, Energy & the Environment	3
SEE Core		6-9
Select one or two courses (3-6 hours) from:		
ASI 320	Cities & Energy	
ASI 322	Cities & Suburbs: The Influence of Place (Social Science)	
ASI 345	Special Topics in Social Science	
SEE 303	Constructions of Place	
SEE 390	Special Topics in Sustainability, Energy and the Environment	
Select no more than one course (0-3 hours) from: ²		
SEE 301	Global Change & Earth Systems	
BIO 310	Ecology	

BIO 359	Sustainability & the Biosphere	
BIO 395	Global Environmental Biology	
GEO 208	Environmental Geology	
CHM/GEO 234	Energy Resources	
PHY 220	Energy & Environmental Physics	
SEE Depth		6-9
(one course with experiential or research component) ³		
SEE 401	Sustainability Research I (SEE Depth Courses)	
SEE 402	Sustainability Research II	
SEE 490	Experiential Study in Sustainability, Energy and the Environment	
BIO 370	Conservation Biology	
BIO 407	Plant Diversity & Ecology	
BIO 409	Ecological Restoration	
BIO 441	Environmental Plant Biology	
BIO 452	Biology of Rivers & Lakes	
BIO 459	Environmental Ecology	
BIO 466	Biology of Infectious Disease	
CEE 333	Water Resources Engineering	
CEE 390	Environmental Pollution Control	
CEE 434	Water & Wastewater Engineering	
CEE 463	Hazardous Waste Treatment	
ECO 435	Economics of the Environment	
ECO 460	Economic Development & Growth	
ECO 485	Urban & Regional Economics	
EGR 330	Engineering Design & Appropriate Technology	
ENG 342	Literature and the Environment	
GEO 302	Glacial Geology	
GEO 309	Surface & Groundwater Hydrology	
GEO 450	Applied Geographic Information Systems	
GEO 455	Environmental Remote Sensing	
HSS 302	Community Nutrition	
HSS/SOC 384	Food Justice	
HST 342	Environmental History of the Americas	
HST 359	History of American City Planning	
MEE 420	Energy Efficient Buildings	
MEE 464	Sustainable Energy Systems	
MEE 472	Design for Environment	
MEE 473	Renewable Energy Systems	
MEE 478	Energy Efficient Manufacturing	
MFG 438	Sustainable Manufacturing & Product Design	
PHL 321	Environmental Ethics	
PHL 334	Philosophy & Ecology	
POL 371	Environmental Policy	
REL 365	Christian Ethics & the Environment	
REL 472	Ecology & Religion	
SWK 335	Social Work & Environmental Justice	
VAR 350	Art and Social Practice	
Total Hours		18

¹ Students who wish to minor in Sustainability, Energy and the Environment should contact the coordinator of the Sustainability, Energy and the Environment minor.

² Students with a major not otherwise requiring a biology course must complete either SEE 301 (with its prerequisite) or BIO 359 or BIO 395.

³ Additional courses may be approved by SEE coordinator.

Courses

SEE 250. Introduction to Sustainability, Energy & the Environment. 3 Hours

A multidisciplinary introduction to Sustainability, Energy and the Environment (SEE) and to the SEE minor. Emphasis on learning how to view complex issues from different disciplinary points of view, developing reading and critical thinking skills about current issues in sustainability, gaining an awareness of different ethical positions and how these influence the quest for solutions, and learning how scientific and sociopolitical processes work to investigate and address sustainability issues.

SEE 301. Global Change & Earth Systems. 3 Hours

Multidisciplinary introduction to the science of the earth system. Focus is on the interrelatedness of geological, biological, chemical and physical processes, and on methods used to understand both the past natural history and potential future scenarios for change in the earth system.

SEE 303. Constructions of Place. 3 Hours

Multidisciplinary, arts-based course that explores the complex connections between our sense of place and the physical and environmental conditions that influence landscapes and communities.

SEE 390. Special Topics in Sustainability, Energy and the Environment. 1-3 Hours

Examination of a specific problem or topic relating to sustainability, energy and the environment at the regional, national, or global scale including particular topics relating to global sustainability policy and sustainable development goals, human rights and climate change and access to modern energy systems. Students will analyze the topic from multiple perspectives possibly including artistic, technical, scientific, social, economic, ethical, and faith-based. Students will apply interdisciplinary knowledge to characterize systems, resources, and stakeholders relevant to the particular problem or topic and discuss solutions to establish more resilient and sustainable systems. Prerequisite(s): SEE 250.

SEE 401. Sustainability Research I. 3 Hours

Interdisciplinary exploration of the issues of sustainability. The scientific, moral, spiritual, social, political, historical, ethical and economic dimensions of sustainability will be explored. Exploration of the foundations of ethical theory and their application to environmental issues. Students will pursue a research project with the primary focus on sustainability on campus. Prerequisite(s): PHL 103 or ASI 112 or ASI 120; completion of General Education Natural Science or CAP Natural Science Requirements: junior or senior standing.

SEE 402. Sustainability Research II. 3 Hours

An interdisciplinary exploration of the issues of sustainability as they affect the Dayton community. Course will also explore political philosophy and the ethical foundations of public policy. Students will choose an in-depth community-based research project. Prerequisite(s): PHL 103 or ASI 112 or ASI 120; completion of General Education Natural Science or CAP Natural Science Requirements; junior or senior standing.

SEE 477. Sustainability, Energy & Environment Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approval of University Honors Program.

SEE 477H. Honors Thesis. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approval of University Honors Program.

SEE 478. Sustainability, Energy & Environment Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

SEE 478H. Honors Thesis. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

SEE 490. Experiential Study in Sustainability, Energy and the Environment. 1-3 Hours

Experiential study of a topic in Sustainability, Energy and the Environment. Students will study a topic of their choosing in consultation with instructor or faculty advisor. Topics will be problem-driven and focused on developing sustainable solutions at the local, national, or global scale. Prerequisite(s): SEE 250.

Theatre

Major:

- Bachelor of Arts, Theatre, Dance and Performance Technology (p. 286)

Minor:

- Theatre, Dance and Performance Technology (p. 287)

University of Dayton's Theatre, Dance, and Performance Technology Program provides a liberal arts tradition, creating performance with purpose through interdisciplinary discovery. We engage talent in the service of community, leading through the arts to problem-solve.

The theatre is where we discover who we are, affirm our values, aspire to be better, and seek solutions. It's where we play "what if?" in the face of "who cares?" It's where we engage in collaborative, creative inquiry that reminds us what it is to be human, to be flawed, to be transformed. The theatre is the site of embodied democracy, where entertainment entertains emergent ideas - because we all have stories to tell.

The University's program provides the option of four theoretical and practical concentrations: acting, performance, technology, dance, and applied theatre - all informed by a Marianist tradition of community engagement and social justice. The minor is 15 credits and the Department of Communication also offers a concentration in theatre. With co-curricular, interdisciplinary, and experiential learning at the heart of the curriculum, performers and technicians learn by doing, serving and creating. They develop their character, find their light and lead.

Faculty

Joseph M. Valenzano, III, Chairperson, Department of Communication
Michelle Hayford, Program Director
Professor Emeritus: Anderson, Gilvary
Associate Professor: Hayford
Assistant Professor: Dunlevy
Lecturers: Beran, Evans, Yorke

Bachelor of Arts, Theatre, Dance and Performance Technology (TDP) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected

First-Year Humanities Commons ¹	12
HST 103 West and the World	
REL 103 Introduction to Religious and Theological Studies	
PHL 103 Intro To Philosophy	
ENG 100 Writing Seminar I ²	
Second-Year Writing Seminar ³	0-3
ENG 200 Writing Seminar II	
Oral Communication	3
CMM 100 Principles of Oral Communication	
Mathematics	3
Social Science	3
SSC 200 Social Science Integrated	
Arts	3
Natural Sciences ⁴	7
Crossing Boundaries	variable credit
Faith Traditions	
Practical Ethical Action	
Inquiry	
Integrative	
Advanced Study	variable credit
Philosophy and/or Religious Studies	
Historical Studies	
Diversity and Social Justice	3
Major Capstone	0-3

¹ Completed with ASI 110 and ASI 120.

² Or ENG 100A and ENG 100B, or ENG 200H, by placement.

³ Completed with ENG 200H or ASI 120.

⁴ Must include two different disciplines and accompanying lab.

Liberal Studies Curriculum

L2 Proficiency (Proficiency in a language other than English)	0-11
Literature (May include CAP Components)	3
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3
Natural Sciences (Satisfies CAP Natural Science)	11
Social Sciences (Includes CAP Social Science)	12

Major Requirements

THR 105 Theatre Appreciation (Satisfies CAP Arts)	3
THR 250 Creative Arts for Social Justice	3
or VAR 250 Diversity in Creative & Performing Arts	
THR 304 Movement for Everyone	3
THR 308 Engineering for the Performing Arts	3
or EGR 308 Engineering for the Performing Arts	
THR 310 Acting for Everyone	3
THR 316 Performance Company ¹	0
THR 425 Theatre Theory & History	3
THR 499 Creating New Works	3

Select one concentration:

Acting (ACT)

THR 320 Voice & Movement	3
THR 323 Ensemble Acting	3
THR 345 Devising Performance	3
Select 6 semester hours from: ²	6
THR 300 Performance Practicum	
THR 312 Acting for the Camera	
THR 344 Musical & Opera Workshop ³	
or MUS 390 Ensembles	
THR 350 Acting Styles	
THR 354 Kinetic Forms	
THR 372 Dance & Physical Theatre Styles	
THR 424 Directing	

Applied Theatre (APT)

THR 345 Devising Performance	3
THR 352 Applied Theatre	3
Select 9 semester hours from: ²	9
THR 300 Performance Practicum	
THR 313 Social Justice & Dramatic Literature	
THR 314 Costumes & Textiles	
THR 322 Philosophy and Theatre/Dance: Performing Human Identity	
or PHL 322 Philosophy and Theatre/Dance: Performing Human Identity	
THR 354 Kinetic Forms	
THR 380 Power, Gender & Performance	
or POL 341 Power, Gender & Performance	
THR 417 Theatre in Education	

or EDT 417	Theatre in Education	
THR 424	Directing	

Dance (DNC)

THR 322	Philosophy and Theatre/Dance: Performing Human Identity	3
or PHL 322	Philosophy and Theatre/Dance: Performing Human Identity	
THR 341	Modern Dance	2
THR 345	Devising Performance	3
THR 361	Jazz Dance	1
THR 371	Ballet	2
Select 4 semester hours from: ²		4
MUS 233	Eurhythmics	
THR 300	Performance Practicum	
THR 320	Voice & Movement	
THR 323	Ensemble Acting	
THR 344	Musical & Opera Workshop ³	
or MUS 390	Ensembles	
THR 354	Kinetic Forms	
THR 372	Dance & Physical Theatre Styles	
THR 424	Directing	

Performance Technology (PFT)

THR 311	Design Concepts	3
Select 6 semester hours from Stage Management & Design:		6
THR 306	Stage Management	
THR 307	Light Design	
THR 309	Sound Design	
THR 330	Set Design	
Select 6 semester hours from: ^{2, 4}		6
THR 300	Performance Practicum	
THR 302	Stage Makeup	
THR 303	Scenic Painting	
THR 314	Costumes & Textiles	
THR 345	Devising Performance	
THR 354	Kinetic Forms	
THR 424	Directing	

Theatre Studies (TST)

Select 15 semester hours from THR, including cross listed courses. 15
 Course selection requires advisor and program director approval.

Breadth

ASI 150	Introduction to the University Experience	1
Total Hours to total at least		124

¹ Seven semesters of the 0 credit THR 316 are required for THR majors to build community and provide professional development opportunities.

² May include THR 370, THR 490, and THR 498 with permission of program director.

³ MUS 390 must be the Opera Workshop section.

⁴ May also select from two courses not already taken from Stage Management & Design listing.

Minor in Theatre, Dance and Performance Technology (TDP)

Theatre, Dance & Performance Technology

THR 105	Theatre Appreciation	3
THR 316	Performance Company ¹	0
Select an additional 12 credits from any THR course		12
Total Hours		15

¹ Two semesters of THR 316 are required.

First Year

Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3
HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 THR 310	3
THR 105 (CAP Arts / Creative and Performing)	3 THR 316	0
CMM 100 (CAP Communication)	3 MTH (CAP Mathematics)	3
Language 101	4 Language 141	4
	17	16

Second Year

Fall	Hours Spring	Hours
ENG 200 (CAP Writing Seminar)	3 SSC 200 (CAP Social Science)	3
THR 308 or EGR 308 (CAP Integrative)	3 THR 250 or VAR 250 (CAP Diversity & Social Justice)	3
THR 316	0 THR 304	3
Social Science - intro level	3 THR 316	0
INSS (CAP Natural Science w/lab)	4 INSS (CAP Natural Science w/lab)	4
Language 201 or contextual course	3 General elective	2
	16	15

Third Year

Fall	Hours Spring	Hours
THR 316	0 THR 316	0
THR 425 (CAP Advance History)	3 THR Concentration/elective	3
THR Concentration/elective	3 CAP Faith Traditions	3
INSS Natural Science	3 CAP Practical Ethical Action	3
Literature	3 Social Science - 300/400 level	3

Social Science - elective	3 General elective	3
<hr/>		
	15	15
Fourth Year		
Fall	Hours Spring	Hours
THR 316	0 THR 316	0
THR Concentration/elective	3 THR 499 (Satisfies CAP Major Capstone)	3
THR Concentration/elective	3 THR Concentration/ elective	3
CAP Advanced Philosophy/Religious Studies	3 CAP Advanced Philosophy/ Religious Studies	3
CAP Inquiry	3 General elective	3
General elective	3 General elective	3
<hr/>		
	15	15

Total credit hours: 124

Courses

THR 105. Theatre Appreciation. 3 Hours

Experiential and co-curricular course designed to engage students and create an appreciation for and understanding of live theatre and performance through attendance at selected performances on the campus and in the community. Open to all University students.

THR 250. Diversity in Creative & Performing Arts. 3 Hours

This course serves to introduce students to the interdisciplinary fields of visual and performing arts through a critical multicultural and social justice lens that foregrounds the appreciation of diversity and enables the expansion of personal cultural competencies. This Integrative and Diversity and Social Justice CAP course will also engage students in creating performance and/or art in response to diversity and social justice issues.

THR 251. Beginning Tap Dance. 2 Hours

Beginning course in the theory and practice of tap dance.

THR 261. Beginning Jazz Dance. 2-3 Hours

Beginning course in the theory and practice of jazz dance.

THR 271. Beginning Ballet. 2-3 Hours

Beginning course in the theory and practice of classical ballet technique.

THR 300. Performance Practicum. 1-3 Hours

Credit earned for faculty-supervised involvement in a mainstage production. Experiential credit may be earned in a variety of areas including acting, performance technology, dance, applied theatre, and theatre studies. Open to all university students, by permission of Director of Theatre Program. Audition may be required. Enrollment by permission of Director of Theatre Program.

THR 302. Stage Makeup. 2 Hours

An experiential course where students learn the basic principles of the art and technique of stage makeup so that they may use them in the design and execution of makeup applications. Open to all university students.

THR 303. Scenic Painting. 3 Hours

Exploration through experiential learning of the tools, techniques and terminology used in the craft of scenic painting. The student will learn fundamental and advanced scenic painting techniques with additional emphasis on faux painting techniques and trompe'l oeil painting. Open to all university students.

THR 304. Movement for Everyone. 3 Hours

Movement course for non-dancers, athletes, and dancers alike, to learn the theories and practices of bodily awareness, movement, dance, and strength. This course will enhance students' embodied communication, expressive agility, strength and endurance, while providing an engagement with the arts and aesthetics.

THR 306. Stage Management. 3 Hours

Investigation of the techniques, communication methodology, resources, and practices for the stage manager. The course examines various activities performed by stage managers in musicals, plays, dance, and operas. Emphasis on organizational and management practices common to most theatres. Development of skills in applying methods of stage management. Prerequisite(s): THR 311, THR 308.

THR 307. Light Design. 3 Hours

A course in the art and practice of lighting design for the theatre. The course will include lighting equipment and control, elements of electricity, script analysis, design methodologies, additive and subtractive color theory, lighting for dance, musicals, plays and performance installations. Open to all university students. Prerequisite(s): THR 308, THR 311.

THR 308. Engineering for the Performing Arts. 3 Hours

Experiential course exploring the best practices and upcoming trends in the materials, methods, and procedures used in engineering scenic environments for the performing arts, through the integration of the technical Theatre and Engineering disciplines. This course will provide students with practical experience in working with performance technology industry partners through the testing of emergent performance technology for product development and the uses of this technology to help support arts education needs in our community. Open to all university students.

THR 309. Sound Design. 3 Hours

Study and application of designing sound for live theatrical productions. Through experiential learning, this course will cover the following principle areas: basic audio, theatrical recording techniques and equipment, musical and effects integration, theatre acoustics, designing sound, and sound reinforcement for live theatrical events. Open to all university students. Prerequisite(s): THR 308 and THR 311.

THR 310. Acting for Everyone. 3 Hours

Study of the fundamentals of acting and how to apply them to real life situations to enhance communication skills and career preparation in all major fields of study; previous acting experience is not a pre-requisite. Open to all university students.

THR 311. Design Concepts. 3 Hours

Survey of various backstage professional technical theatre positions in a theatrical production. Current theory is examined along with practical applications and techniques. Open to all university students. Prerequisite(s): THR 308 or by permission of the Program Director.

THR 312. Acting for the Camera. 3 Hours

Study and practice of basic techniques of acting for the camera: multimedia platforms, film, and television. Emphasis on technical requirements of acting for the camera and the control of body and voice actors must exercise in these media. Prerequisite(s): THR 310.

THR 313. Social Justice & Dramatic Literature. 3 Hours

Survey of dramatic literature that engages issues pertaining to diversity and social justice. Survey may include domestic and global dramatic literatures that grapple with processes of identity, representation, and performing the "other."

THR 314. Costumes & Textiles. 3 Hours

Introduction to the process of costume and textile design for theatre. Open to all university students.

THR 316. Performance Company. 0 Hours

Weekly performance workshop. All Theatre, Dance, & Performance Technology majors and minors are required to attend. Workshops will be experiential, adapted to student interests/needs, and material to be covered will include a variety of topics in acting, applied theatre, dance, performance technology, and theatre studies. May be repeated. Prerequisite(s): Theatre majors and minors only.

THR 320. Voice & Movement. 3 Hours

Study of voice and movement for the performer, using an integrated approach. Prerequisite(s): THR 310 or by permission of Program Director.

THR 322. Philosophy and Theatre/Dance: Performing Human Identity. 3 Hours

An interdisciplinary and advanced philosophy course with two components: 1) theoretical, focusing on the philosophy of dance or theatre and the philosophy of human identity, and/or human flourishing, and 2) dance or theatre, where students will learn to use dance or theatre to express human identity. Repeatable for extra credit as topics change up to 6 semester hours. Prerequisite(s): PHL 103 or ASI 120 or equivalent.

THR 323. Ensemble Acting. 3 Hours

Further study and practice of techniques introduced in Acting for Everyone. An emphasis on interaction, ensemble, group processes, and scene study. Open to all university students. Prerequisite(s): THR 310 or by permission of the Program Director.

THR 330. Set Design. 3 Hours

Introduction to the art and practice of set design for the theatre. Study and projects will involve the development of conceptual approaches, research, sketches, script analysis, presentation techniques, and design for dance, musicals, plays and performance installations. Open to all university students. Prerequisite(s): THR 311, THR 308.

THR 341. Modern Dance. 2 Hours

Study of the theory and practice of modern dance and technique. All levels welcome. Open to all students.

THR 344. Musical & Opera Workshop. 1 Hour

An experiential course where students rehearse and perform in a mainstage musical or opera production. Audition required. Open to all students. Fall only. Corequisite(s): MUS 390; additional rehearsals to prepare for production.

THR 345. Devising Performance. 3 Hours

Applied theatre laboratory in devising performance techniques via in-class exercises to develop original ensemble-created performance. Prerequisite(s): THR 310 or by permission of Program Director.

THR 350. Acting Styles. 3 Hours

Advanced study and exploration of acting fundamentals as they apply to various styles or specific historical periods. Study and practice of plays, manners, customs, voice, and movement could encompass Greek, Elizabethan, French Neoclassicism, Restoration, Realism, or Post Realistic genres, among many others. Open to all university students. Prerequisite(s): THR 310.

THR 351. Intermediate Tap Dance. 2 Hours

Intermediate course in the theory and practice of tap dance.

THR 352. Applied Theatre. 3 Hours

Introduction to the practical applications of theatre and prepares the theatre practitioner to create performance for social justice, and engage in applied theatre work according to the best practices in applied theatre ethics. This course is a survey of theorists, theater ensembles, and performers who represent and create with communities in various contexts. This course will also put theory into practice as the student will engage in various applied theatre practices in collaboration with community partners.

THR 354. Kinetic Forms. 3 Hours

Exploration of movement and visual performance of kinetic forms through the design, construction, and manipulation of puppets, kinetic sculpture, and masks. Open to all university students.

THR 361. Jazz Dance. 1 Hour

Study of the theory and practice of jazz dance and technique. All levels welcome. Open to all students.

THR 370. Special Topics. 1-3 Hours

Study of special topics or themes in theatre, performance technology, dance, and applied theatre. May be repeated as topics change.

THR 371. Ballet. 2 Hours

Study of the theory and practice of classical ballet technique. All levels welcome. Open to all students.

THR 372. Dance & Physical Theatre Styles. 1-3 Hours

Special topics in dance and movement, varying between specific dance modes and movement practices drawn from physical theatre and dance modalities.

THR 380. Power, Gender & Performance. 3 Hours

Consideration of performances of identity and advocacy at the intersection of political power and gender as constructive responses to gender inequality. Performance protests for gender equality, and cultural performances of gender are examined in historical case studies and current events.

THR 417. Theatre in Education. 3 Hours

Theories and practices of educational drama and theatre as applied to the language arts. Attention given to the integration of creative drama and applied theatre practices to support speaking, thinking, writing, and reading. Co-curricular and experiential immersion required.

THR 424. Directing. 3 Hours

Study of the evolution of the modern director. Script interpretation as a basis for the development and execution of the production concept, directing for devised works, and experiential learning with practical directing experience in class may be covered. Prerequisite(s): THR 310.

THR 425. Theatre Theory & History. 3 Hours

Seminar course that examines theatre and performance with texts that hybridize conventional theatre history and performance studies with emphases on international performance history and cultural studies/theories. This course considers historical, theoretical and play texts, in order to further the student's understanding of the application of theory to the practice and history of theatre. Plays are critically examined as primary sources informing theatrical historiography. Prerequisite(s): THR 105 & HST 103.

THR 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

THR 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

THR 490. Independent Study. 1-6 Hours

Individual research and report on topic of student's choice in the field of theatre and performance under direct supervision of faculty/staff. Repeatable for credit. Prerequisite(s): Permission of Program Director.

THR 498. Internship. 1-6 Hours

Theatre, dance, performance technology, or applied theatre work experience with an approved organization. Prerequisite(s): Permission of Program Director.

THR 499. Creating New Works. 3 Hours

Capstone course for all theatre, dance, and performance technology majors and communication/theatre (CTR) majors. Students will create an original work in an ensemble, taking on various roles of a creative team. The performance will be presented to the public, and documented for portfolio. Students will engage in professional development to prepare for entering various theatre, performance, dance, performance technology, entertainment, creative industry, and applied theatre fields.

Women's and Gender Studies

Major:

- Bachelor of Arts, Women's and Gender Studies (p. 290)

Minor:

- Women's and Gender Studies (p. 292)

Women's and gender studies places the experiences and perspectives of women at the center of analysis and also considers how gender intersects with other factors, such as race and class, to shape all of our lives. Interdisciplinary in nature, and founded upon the integration of theory and practice, critique and imagination, women's and gender studies brings approaches from other disciplines and fields into conversation with each other and with critical theories about gender and power to address and improve the lives of women and, by extension, of children and men. Inspired by both feminist and Marianist traditions, the Women's and Gender Studies Program at UD seeks to promote:

- Integration, collaboration, and personal engagement in learning
- The development and dissemination of critical thinking for social justice
- The appreciation and protection of human dignity and diversity

- Leadership through responsibility and service to community

Students majoring in women's and gender studies must complete 34 semester hours, including at least ten semester hours in four core WGS courses and 24 semester hours of upper-division courses offered by other departments. For these additional 24 semester hours, students must complete nine semester hours in one area of concentration, six semester hours in each of two additional areas, and three semester hours in a fourth area.

The major also has a cultural diversity requirement of six semester hours. (These hours may be from courses that are also used to fulfill the area requirements.) Of the six hours, three must be from a course that emphasizes race, and/or that takes a multicultural approach, within a U.S. or European context; the other three must be from a course that focuses on a non-U.S./European context or that takes a comparative international approach.

Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.

Students minoring in women's and gender studies must complete at least 15 semester hours, including one interdisciplinary core course (WGS 250 (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/womensandgenderstudies>), WGS 310 (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/womensandgenderstudies>) or WGS 350 (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/womensandgenderstudies>)) and twelve hours in approved upper-division courses (300-level or above) from at least three different disciplines. Alternatively, minors may take two of the interdisciplinary core courses, and nine hours in approved upper-division courses from three different disciplines.

Women's and Gender Studies Committee

Denise James (Philosophy), Director
 Bennett (Religious Studies), Damasco (Roesch Library), Daprano (Health and Sport Science), DeAnda (Religious Studies), Fleischmann (History), Hayford (Theatre), Hudson (Political Science), Laufer-Ukeles (Law), Leming (Sociology, Anthropology, and Social Work), Merithew (History), Picca (Sociology, Anthropology, and Social Work), Potter (English), Rismiller (Women's Center), Watters (Communication)

Bachelor of Arts, Women's and Gender Studies (WGS) minimum 124 hours

Common Academic Program (CAP)

*credit hours will vary depending on courses selected	
First-Year Humanities Commons ¹	12
HST 103	West and the World
REL 103	Introduction to Religious and Theological Studies
PHL 103	Intro To Philosophy
ENG 100	Writing Seminar I ²
Second-Year Writing Seminar ³	0-3
ENG 200	Writing Seminar II
Oral Communication	3
CMM 100	Principles of Oral Communication
Mathematics	3
Social Science	3
SSC 200	Social Science Integrated

Arts	3	History	
Natural Sciences ⁴	7	HST 347	Sex, Race & Science
Crossing Boundaries	variable credit	HST 350	GLBTQ History
Faith Traditions		HST 351	American Gender & Women's History
Practical Ethical Action		HST 352	Family History
Inquiry		HST 353	History of Women in European Societies
Integrative		HST 354	History of Women & Gender in the Middle East
Advanced Study	variable credit	HST 356	Topics in Transnational Feminist History
Philosophy and/or Religious Studies		HST 397	History of Black Women
Historical Studies		Philosophy and Religious Studies	
Diversity and Social Justice	3	PHL 307	Philosophy and Feminist Thought
Major Capstone	0-3	PHL 364	Race, Gender and Philosophy
		REL 471	Women & Religion
		REL 472	Ecology & Religion
		REL 474	Women & the Global Church
		Social Sciences ³	
¹ Completed with ASI 110 and ASI 120.		ANT 306	Culture & Power
² Or ENG 100A and ENG 100B, or ENG 200H, by placement.		HSS 325	Women in Sport
³ Completed with ENG 200H or ASI 120.		HSS 360	Sport and Bodies
⁴ Must include two different disciplines and accompanying lab.		POL 340	Gender & International Relations
Liberal Studies Curriculum		POL 341	Power, Gender & Performance
Creative and Performing Arts (May include CAP Arts)	3	PSY 443	Women, Gender, and Psychology
L2 Proficiency (Proficiency in a language other than English)	0-11	PSY 462	Human Sexuality
Literature (May include CAP Components)	3	SOC 322	Sex Roles & Society
Mathematics, excluding MTH 205 (Satisfies CAP Mathematics)	3	SOC 330	Perspectives on Aging
Natural Sciences (Satisfies CAP Natural Science)	11	SOC 331	Marriages & Families
Social Sciences (Includes CAP Social Science)	12	SOC 332	Gender and Society
		SOC 333	Sociology of Sexualities
Major Requirements	34	SOC 339	Social Inequality
(May include CAP Components)		SOC 432	Structure of Privilege
WGS 250 Introduction to Women's and Gender Studies ^{1,2}	3	SOC 360	Sport and Bodies
or WGS 350 Feminist Social Change		SWK 325	Child Abuse
WGS 310 Feminist Theory & Methodology	3	SWK 327	Parenting: Social Welfare Role
WGS 390 Service Learning in Women's & Gender Studies	1-3	SWK 330	Perspectives on Aging
WGS 490 Senior Seminar in Women's & Gender Studies (Satisfies CAP Major Capstone)	3	SWK 370	Social Welfare Policy
First area courses:		UDI 341	Sexual Diversity
Select nine semester hours from one area below	9	Cultural Diversity Requirement ⁵	
Second area courses:		Select one U.S./Europe Multicultural course from:	
Select six semester hours from a second area below	6	ENG 335	African American Literature
Third area courses:		HST 351	American Gender & Women's History
Select six semester hours from a third area below	6	HST 353	History of Women in European Societies
Fourth area courses: ³		HST 397	History of Black Women
Select three semester hours from the final area below	3	PHL 364	Race, Gender and Philosophy
Areas: ⁴		SOC 432	Structure of Privilege
Literature and Arts		Select one Global (non U.S./Europe) course from:	
CMS 415 Gender and Communication		ANT 306	Culture & Power
ENG 333 Images of Women in Literature		ENG 345	Postcolonial Literature
ENG 335 African American Literature		HST 354	History of Women & Gender in the Middle East
ENG 336 Gender and Fiction		HST 356	Topics in Transnational Feminist History
ENG 345 Postcolonial Literature		POL 340	Gender & International Relations
MUS 315 Music and Gender		REL 471	Women & Religion
THR 380 Power, Gender & Performance		REL 474	Women & the Global Church
VAH 360 Art History & Feminism			

Breadth

ASI 150	Introduction to the University Experience	1
Total hours to total at least		124

- Restricted to students with no more than six semester hours applicable to a WGS major or minor. This course counts toward the WGS major only if taken before any other WGS core course.
- A major who has taken WGS 250 may also take WGS 350 in lieu of one of the required disciplinary courses. WGS 350 will be counted toward the area requirement that most reflects the course's content during the relevant term.
- In order to achieve some balance in approach, students must complete at least six semester hours each in both social sciences (anthropology, political science, psychology, sociology, and social work) and humanities (literature, arts, history, philosophy, and religious studies) courses. For this reason, social sciences must normally serve as the first, second, or third area, and not as the fourth.
- Other courses may be counted toward the major, with approval of the program director, and depending on topic and content during a given semester.
- This requirement may be satisfied with courses that are also used to fulfill the area requirements. Of the six semester hours, three must be from a course that emphasizes race, and/or that takes a multicultural approach, within a U.S. or European context; the other three must be from a course that focuses on a non-U.S./European context or that takes a comparative international approach.

Minor in Women's and Gender Studies (WGS)

Women's and Gender Studies¹

WGS 250	Introduction to Women's and Gender Studies	3
or WGS 310	Feminist Theory & Methodology	
or WGS 350	Feminist Social Change	

Select twelve semester hours from at least three different academic disciplines (300/400 level)²

Total Hours	15
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- Students who wish to minor in Women's and Gender Studies should contact the director of the Women's and Gender Studies Program.
- A student may, alternatively, take two of the indicated WGS core courses (WGS 250 (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/womensandgenderstudies>), WGS 310 (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/womensandgenderstudies>), WGS 350 (<http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/womensandgenderstudies>)) and three upper-level courses from three different disciplines.

First Year

Fall	Hours Spring	Hours
ASI 150	1 ENG 100 (CAP Humanities Commons)	3
REL 103, HST 103, or PHL 103 (CAP Humanities Commons)	3 PHL 103, REL 103, or HST 103 (CAP Humanities)	3

HST 103, PHL 103, or REL 103 (CAP Humanities Commons)	3 CMM 100 (CAP Communication)	3
PSY 101 (Social Science - intro level)	3 INSS (CAP Natural Science w/ lab)	4
MTH 114 (CAP Mathematics)	3 Language 141	4
Language 101	4	
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Second Year

Fall	Hours Spring	Hours
WGS 250 or 350	3 ENG 200 (CAP Writing Seminar)	3
CAP Faith Traditions	3 SSC 200 (CAP Social Science)	3
INSS (CAP Natural Science w/lab)	4 PSY 443 (Satisfies CAP Diversity and Social Justice)	3
Social Science - elective	3 PSY at 300 or 400 level	3
Language 201 or contextual course	3 INSS Natural Science	3
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Third Year

Fall	Hours Spring	Hours
ENG 333	3 ENG 336	3
CAP Arts / Creative and Performing	3 HST 347	3
REL 471 (or CAP Advanced Philosophy/Religious Studies)	3 PHL 307 (or CAP Advanced Philosophy/Religious Studies)	3
CAP Integrative	3 HST 351 (or CAP Advanced Historical Studies)	3
Literature (may include major course)	3 General elective	3
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Fourth Year

Fall	Hours Spring	Hours
WGS 310	3 WGS 490 (Satisfies CAP Major Capstone)	3
WGS 390	1 CMS 415 (Satisfies CAP Diversity and Social Justice)	3
ANT 306	3 General elective	3
CAP Practical Ethical Action	3 General elective	3
CAP Inquiry	3 General elective	3
General Elective	3	
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Total credit hours: 126

Courses

WGS 250. Introduction to Women's and Gender Studies. 3 Hours

Introduction to key concepts, themes, and debates in Women's and Gender Studies. Intersectional (studying gender as it intersects with other social identity categories such as race, class, and sexuality), multi- or interdisciplinary, and multicultural in approach. Restricted to students with no more than six semester hours applicable to a WGS major or minor.

WGS 310. Feminist Theory & Methodology. 3 Hours

Exploration of the intersections of feminist epistemology, methodology, politics, and ethics. Consideration and comparison of a range of theories about gender, power, and knowledge that have shaped the development of feminist and womanist thought, research, practice, and movement in the U.S. and in other parts of the world. Prerequisite(s): WGS 250 or six semester hours prior WGS credit.

WGS 350. Feminist Social Change. 3 Hours

Exploration of the methods and priorities of feminist social change efforts in varying national, cultural, and/or religious contexts, including outside of the U.S. and Europe. Investigation of the nature, possibilities, and challenges of global/transnational feminist movement(s). Prerequisite(s): WGS 150 or six semester hours prior WGS credit.

WGS 380. Special Topics in Women's & Gender Studies. 1-3 Hours

Intensive examination of current thematic, theoretical, or methodological issues in the field of Women's and Gender Studies. Consult composite for topics. May be repeated as topic changes. Prerequisite(s): WGS 250 or WGS 310 or WGS 350 or six semester hours prior WGS credit.

WGS 390. Service Learning in Women's & Gender Studies. 1-3 Hours

Individualized placements in community organizations that enable students to apply and enrich their formal studies by engaging in service work that addresses women's needs and/or advances social justice in relation to gender. May be done as an independent or group study under the direction of a WGS faculty member. May also be done in conjunction with another course. May be repeated up to a maximum of three semester hours. Prerequisite(s): WGS 250 or WGS 310 or WGS 350; permission of program director.

WGS 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

WGS 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477 and approval of University Honors Program.

WGS 480. Independent Study in Women's & Gender Studies. 3 Hours

Individual investigations of special topics in the field of Women's and Gender Studies under faculty direction. May be repeated under special circumstances. No more than six semester hours of WGS 480 may count toward the major. Prerequisite(s): WGS 250 or WGS 310 or WGS 350; approval of program director.

WGS 490. Senior Seminar in Women's & Gender Studies. 3 Hours

Concentration on a particular topic or problem in Women's and Gender Studies, with focus on critical theories, methodologies, ethics and practices appropriate for advanced feminist research. Emphasis on integration (e.g. of feminist theory, methods, and practice) and interdisciplinarity. May require students either to work collaboratively on a single research project or to apply certain theories or methods central to the seminar in their exploration of individual projects. May be repeated as topics change. Prerequisite(s): WGS 250 or WGS 350, WGS 310.